

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.

Bio Guide 55 Ecosystems

Victor M. Corman



Bio Guide 55 Ecosystems:

Soil Biology Guide Daniel L. Dindal, 1991-01-16 A comprehensive study of the biology taxonomy and ecology of each of the soil biotic groups The first chapter presents an ecological approach to soil studies The remaining 42 chapters provide specific information on each of the taxonomic groupings Contains illustrated identification keys to each group Some keys go by functional morphological delineations others lead the reader to classical identification at family genus or species levels Some incorporate descriptions of new genera and species Especially useful for the study of mesic xeric and hydric terrestrial sites Includes an extensive bibliography Assessment of Grassland Ecosystem Conditions in the Southwestern United States, 2004 **Assessment of Grassland Ecosystem Conditions in the Southwestern United States: without special title**, 2004 **Populations, Biocommunities, Ecosystems** George P. Stamou, 2012 Discussions on historical and philosophical issues in ecology have been rather limited This volume presents an enriched and comprehensive review on ecological issues The topics covered in this e book include the emergence of the field of life history st Conservation Biology Fred Van Dyke, Rachel L. Lamb, 2020-07-07 This book provides a thorough up to date examination of conservation biology and the many supporting disciplines that comprise conservation science In this the Third Edition of the highly successful *Conservation Biology Foundations Concepts Applications* the authors address their interdisciplinary topic as it must now be practiced and perceived in the modern world Beginning with a concise review of the history of conservation the authors go on to explore the interplay of conservation with genetics demography habitat and landscape aquatic environments and ecosystem management and the relationship of all these disciplines to ethics economics law and policy An entirely new chapter *The Anthropocene Conservation in a Human Dominated Nature* breaks new ground in its exploration of how conservation can be practiced in anthropogenic biomes novel ecosystems and urban habitats The Third Edition includes the popular *Points of Engagement* discussion questions used in earlier editions and adds a new feature *Information Boxes* which briefly recap specific case histories described in the text A concluding chapter offers insight into how to become a conservation professional in both traditional and non traditional roles The authors Fred Van Dyke and Rachel Lamb draw on their expertise as field biologists wildlife managers consultants to government and industry and scholars of environmental law policy and advocacy as well as their many years of effective teaching experience Informed by practical knowledge and acquired skills the authors have created a work of exceptional clarity and readability which encompasses both systemic foundations as well as contemporary developments in the field *Conservation Biology Foundations Concepts Applications* will be of invaluable benefit to undergraduate and graduate students as well as to working conservation scientists and managers This is an amazing resource for students faculty and practitioners both new and experienced to the field Diane DeBinski PhD Unexcelled wisdom for living at home on Wonderland Earth the planet with promise destined for abundant life Holmes Rolston PhD Van Dyke and Lamb have maintained the original text s emphasis on connecting classical ecological and

environmental work with updated modern applications and lucid examples But more importantly the third edition contains much new material on the human side of conservation including expanded treatments of policy economics and climate change Tim Van Deelen PhD Fred Van Dyke and Rachel Lamb break new ground in both the breadth and depth of their review and analysis of this crucially important and rapidly changing field Any student or other reader wishing to have a comprehensive overview and understanding of the complexities of conservation biology need look no further this book is your starting point Simon N Stuart PhD Anyone who teaches talks or writes and works on Conservation Biology needs this latest edition of Conservation Biology Foundations Concepts Applications 3rd edition by Fred Van Dyke and Rachel L Lamb This will be useful to both beginners and experts as well The authors included almost all important issues in relation to conservation biology This is really an outstanding book Bidhan Chandra Das Professor Ecology Branch Department of Zoology University of Rajshahi Bangladesh

Bioassessment of Freshwater Ecosystems Robert C. Bailey, Richard H. Norris, Trefor B. Reynoldson, 2012-12-06 Aquatic ecosystem assessment is a rapidly developing field and one of the newer approaches to assessing the condition of rivers and lakes is the Reference Condition Approach This is a significant advancement in biomonitoring because it solves the problem of trying to locate nearby control or reference sites when studying an ecosystem that may be degraded a problem that bedevils traditional approaches Rather than using upstream reference sites in a river system or next bay over reference sites in a lake an array of ecologically similar least exposed to stress sites scattered throughout a catchment or region is used Once the reference condition has been established any site suspected of being impacted can be assessed by comparison to the reference sites and its status determined The Reference Condition database once formed can be used repeatedly

General Technical Report RMRS, 1998 *Freshwater Ecosystems* National Research Council, Division on Earth and Life Studies, Commission on Geosciences, Environment and Resources, Committee on Inland Aquatic Ecosystems, 1996-10-27 To fulfill its commitment to clean water the United States depends on limnology a multidisciplinary science that seeks to understand the behavior of freshwater bodies by integrating aspects of all basic sciences from chemistry and fluid mechanics to botany ichthyology and microbiology Now prominent limnologists are concerned about this important field citing the lack of adequate educational programs and other issues Freshwater Ecosystems responds with recommendations for strengthening the field and ensuring the readiness of the next generation of practitioners Highlighted with case studies this book explores limnology's place in the university structure and the need for curriculum reform with concrete suggestions for curricula and field research at the undergraduate graduate and postdoctoral levels The volume examines the wide ranging career opportunities for limnologists and recommends strategies for integrating limnology more fully into water resource decision management Freshwater Ecosystems tells the story of limnology and its most prominent practitioners and examines the current strengths and weaknesses of the field The committee discusses how limnology can contribute to appropriate policies for industrial waste wetlands destruction the

release of greenhouse gases extensive damming of rivers the zebra mussel and other invasions of species the broad spectrum of problems that threaten the nation's freshwater supply Freshwater Ecosystems provides the foundation for improving a field whose importance will continue to increase as human populations grow and place even greater demands on freshwater resources This volume will be of value to administrators of university and government science programs faculty and students in aquatic science aquatic resource managers and clean water advocates and it is readily accessible to the concerned individual

Biodiversity in Agroecosystems Wanda W. Collins, Calvin O. Qualset, 1998-08-14 between the diversity of plant and animal species and host dependent agricultural systems Biodiversity in Agroecosystems shows how biodiversity can be thought of not only as the rich make up of a great number of related and competing species within an ecologically defined community but also as the robust behavior and resilience of those species over time and as the endurance of their eco community This book brings to the fore new research on biodiversity in agricultural ecosystems at both micro and macro levels heretofore available only in journals and proceedings papers

Freshwater Ecology and Conservation Jocelyne Hughes, 2018-11-30 This practical manual of freshwater ecology and conservation provides a state of the art review of the approaches and techniques used to measure monitor and conserve freshwater ecosystems It offers a single comprehensive and accessible synthesis of the vast amount of literature for freshwater ecology and conservation that is currently dispersed in manuals toolkits journals handbooks grey literature and websites Successful conservation outcomes are ultimately built on a sound ecological framework in which every species must be assessed and understood at the individual community catchment and landscape level of interaction For example freshwater ecologists need to understand hydrochemical storages and fluxes the physical systems influencing freshwaters at the catchment and landscape scale and the spatial and temporal processes that maintain species assemblages and their dynamics A thorough understanding of all these varied processes and the techniques for studying them is essential for the effective conservation and management of freshwater ecosystems

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