

Additional Lab 8 Ecosystems and Speciation

Problem

How does a founding population adapt to new environmental conditions?

Introduction

When the hurricane's winds died down, a small lizard crawled out of her hiding place in the branches of a mangrove tree. Her home was now part of a tangled mat of vegetation floating on the surface of the ocean. She shared the mat with insects and slugs, as well as other lizards from her own species. After a week, ocean currents pushed the mat onto the shore of a small, isolated island. The hungry lizards crept ashore in search of food.

In this lab, your teacher will give you a description of the island on which the lizards landed. You will be asked to suggest how the descendants of the founding population may adapt over time to their new environment.

Skills Focus

Infer, Predict, Apply Concepts

Materials

- colored pencils

Pre-Lab Questions

- 1. Review** What is an adaptation?

- 2. Infer** What are the most likely sources of new genetic variation in the descendants of the founding population of lizards?

Ecosystems And Speciation Lab Manual

Rees Kassen



Ecosystems And Speciation Lab Manual:

Tropical Rain Forest Ecosystems H. Lieth, M.J.A. Werger, 2012-12-02 After publication of the first volume of the Tropical Rain Forest the International Journal of Mycology and Lichenology commented This is a welcome addition to the literature on the ecology of tropical rain forests The book provides a wealth of data and stimulating discussions and is of great interest to ecologists interested in tropical areas Whereas the first volume dealt with system ecological aspects such as community organization and processes the present volume concentrates on biogeographical aspects such as species composition diversity and geographical variation Recent ecological research in the tropical rain forest has greatly extended our understanding of biogeographical patterns of variation in the various groups of organisms and has revealed many of the ecological and evolutionary forces that led to the present patterns of variation Many important systems of co evolution between the tropical rain forest ecosystems have also come to light and the loss of species and related damage is better understood in quantitative terms This volume presents a comprehensive review of these and other features of the rain forest ecosystem structure and the ecological processes operating that system General chapters on abiotic and biotic factors are followed by specific chapters on all major groups of organisms Prospects for the future are discussed and research needs clearly stated Also the human exploitation of the system its effects and its limits are discussed The book is extensively illustrated by photographs graphs and tables and comprehensive bibliographies follow each chapter Author systematic and subject indices complete the book It is a must for all ecologists agriculturists foresters agronomists hydrologists soil scientists entomologists human ecologists nature conservationists and planners dealing with tropical areas Biologists and environmentalists will also find the volume of great interest *Ecological Research Series*, 1980 *Soil Biodiversity in Amazonian and Other Brazilian Ecosystems* F. M. S. Moreira, J. O. Siqueira, L. Brussaard, 2006 The loss of biological diversity has become an increased concern over recent years and is now enshrined in international conventions Most biodiversity in fact occurs in the soil Soil organisms especially bacteria fungi and soil invertebrates play a major role in the formation of soil structure and are primary agents of decomposition and are drivers of nutrient cycling and hence agricultural production This book reviews soil biodiversity in one of the key biodiversity hotspots of the world i e the Amazon and nearby regions of Brazil It covers both the tropical savannah and rain forests The work reported is based on a project Conservation and Sustainable Management of Below Ground Biodiversity executed by TSBF CIAT with co financing from the Global Environment Facility GEF and implementation support from the United Nations Environment Programme UNEP The book represents a major contribution to the literature and will interest those in biodiversity conservation soil science and ecology and biodiversity conservation **Ecological and Behavioral Methods for the Study of Bats** Thomas H. Kunz, Stuart Parsons, 2009-11-09 Thomas H Kunz is a professor of biology and director of the Center for Ecology and Conservation Biology at Boston University He is the editor of Bat Biology and Conservation and Bat Ecology Stuart Parsons is a senior lecturer in biological

sciences at the University of Auckland New Zealand Jacket **U.S. Environmental Protection Agency Library System**
Book Catalog Holdings as of July 1973 United States. Environmental Protection Agency. Library Systems Branch, 1974
Fishery Bulletin ,2009 *Canadian Journal of Zoology* ,2008 **Tropical Rain Forest Ecosystems** Frank B.
Golley, Helmut Lieth, M. J. A. Werger, 1983 **Experimental Evolution and the Nature of Biodiversity** Rees Kassen, 2024
Draws on more than three decades of research in microbial experimental evolution to provide a sketch of a general
empirically grounded theory of biodiversity and the first synthetic treatment of experimental evolution **Federation**
Proceedings Federation of American Societies for Experimental Biology, 1967 Often includes the proceedings of various
member societies and the abstracts of papers submitted for presentation at the annual meeting of the Federation or at the
meetings of its member societies **Elements of Ecology** Thomas Michael Smith, Robert Leo Smith, 2006 KEY BENEFIT
Elements of Ecology Sixth Edition maintains its engaging reader friendly style as it explains the basic principles of ecology
The text is updated to include new chapters on current ecological topics new part introductions to connect the subfields of
ecology and new in text features to encourage students to interpret the ecological data research and models used throughout
the text Abundant accessible examples illustrate and clarify the text s emphasis on understanding ecological patterns within
an evolutionary framework Additionally the text employs new study questions requiring students to make connections and
apply their knowledge KEY TOPICS Introduction and Background The Nature of Ecology Adaptation and Evolution The
Physical Environment Climate The Aquatic Environment The Terrestrial Environment Organismal Ecology Plant Adaptations
Animal Adaptations Life History Patterns Population Ecology Properties of Populations Population Growth Interspecific
Population Regulation Metapopulations The Ecology of Species Interactions Competition Predation Parasitism and Mutualism
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Conservation Ecology Global Climate Change MARKET For all readers interested in the basic principles ecology
Molecular Ecology and Evolution of Intertidal Sculpins Marina L. Ramon, 2007 **Ecological Genetics of Flower Color**
Variation in Southern California Bush Monkeyflowers Matthew A. Streisfeld, 2005 *Zinc in the Environment,*
Ecological Cycling Jerome O. Nriagu, 1980-03-10 Abstract A comprehensive examination of the role of zinc in the environment
focuses on the chemical behavior and biological effects of zinc in the earth air water and biosphere Although zinc is essential
for life excess amounts may be toxic Biological chemical ecological geological and clinical studies of zinc are reviewed Part I
describes sources distribution and deposition of zinc as it flows throughout the environment in soils sediments limestone the
atmosphere and natural urban and waste waters Three chapters cover zinc cycling in the ecology of marine freshwater and

forest ecosystems Part II examines the relationship of zinc to biological and ecological health and disease Effects of zinc deficiency in plants animals and man and biochemical aspects of zinc metabolism are discussed Specific chapters address the function of zinc in lead poisoning pregnancy tumorigenesis and wound healing Other topics include zinc uptake accumulation toxicity tolerance and transport **Proceedings** ,2007 **Ecological Investigations of Yeasts in Antarctic Soils**
Ronald M. Atlas,Margaret E. Di Menna,Roy E. Cameron,1978 Biology 6-12 Florida. Dept. of Education,1999 **Ecology**
,1994 *U.S. Environmental Protection Agency Library System Book Catalog* United States. Environmental Protection
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