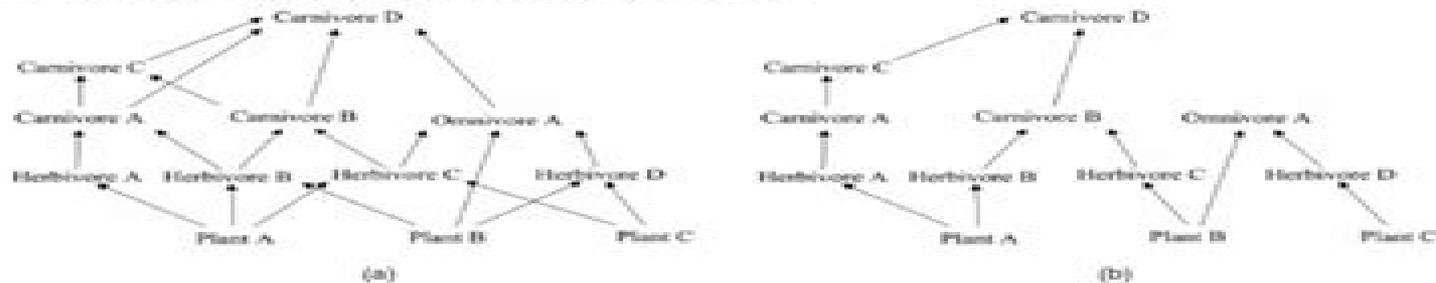


Lab 11. Ecosystems and Biodiversity: How Does Food Web Complexity Affect the Biodiversity of an Ecosystem?

Introduction

An ecosystem is a community of living organisms and the nonliving components of the environment. Energy flows in an ecosystem in one direction through food chains, and a food web is made up of all the food chains within a community of organisms. Food chains and food webs consist of the producers (the autotrophs of an ecosystem), the primary consumers (the herbivores and omnivores of the ecosystem), the secondary consumers (the carnivores and omnivores of the ecosystem), and the top predator. Some ecosystems have complex food webs and some do not. In ecosystems with a complex food web, herbivores and omnivores eat many different types of plants and the carnivores eat many different types of animals. The consumers in this type of ecosystem are described as generalists. Ecosystems that support consumers that rely on a single food source, in contrast, have simple food webs, because the consumers are specialists. An example of a complex food web is provided in panel (a) of the figure below, and an example of a simple food web is provided in panel (b) of that figure.

Example of (a) a complex food web and (b) a simple food web



Biodiversity refers to the variation in species found within an ecosystem, and it is measured in two ways: (1) species richness, which is the total number of different species in an ecosystem; and (2) relative abundance, which is a measure of how common each species is within the ecosystem. Regions that are home to many different species with a high relative abundance of those different species have high levels of biodiversity, whereas regions with only a few different types of species or that have moderate species richness but a low relative abundance of several species have a low level of biodiversity.

Notice that the food webs illustrated on the opposite page have the same amount of species richness even though the feeding relationships are different. Some of the feeding relationships illustrated in these two ecosystems, however, may or may not be sustainable over time and may result in a net decrease in biodiversity. The relative abundance of each species, for example, may change if one or more of the populations within the ecosystem grows or declines over time. The species richness of the ecosystems could also change if some of the populations disappear because of too much predation or too little access to natural resources. Given the role that biodiversity plays in ecosystem health and tolerance to ecological disturbances, it is important to understand how food web complexity is related to the biodiversity of an ecosystem.

Your Task

Use the online simulation *Ecology Lab* (see the figure on the next page), to explore the relationship between food web complexity and biodiversity in an ecosystem.

The guiding question of this investigation is, **How does food web complexity affect the biodiversity of an ecosystem?**

Materials

You will use an online simulation called *Ecology Lab* to conduct your investigation. You can access the simulation by going to the following website: www.learner.org/courses/evrsci/interactives/ecology/.

Lab 11 Ecosystems And Biodiversity How Does Food Web

Christian G. Meyer



Lab 11 Ecosystems And Biodiversity How Does Food Web:

Argument-driven Inquiry in Biology Victor Sampson,2014-04-01 Are you interested in using argument driven inquiry for high school lab instruction but just aren't sure how to do it You aren't alone This book will provide you with both the information and instructional materials you need to start using this method right away Argument Driven Inquiry in Biology is a one stop source of expertise advice and investigations The book is broken into two basic parts 1 An introduction to the stages of argument driven inquiry from question identification data analysis and argument development and evaluation to double blind peer review and report revision 2 A well organized series of 27 field tested labs that cover molecules and organisms ecosystems heredity and biological evolution The investigations are designed to be more authentic scientific experiences than traditional laboratory activities They give your students an opportunity to design their own methods develop models collect and analyze data generate arguments and critique claims and evidence Because the authors are veteran teachers they designed Argument Driven Inquiry in Biology to be easy to use and aligned with today's standards The labs include reproducible student pages and teacher notes The investigations will help your students learn the core ideas crosscutting concepts and scientific practices found in the Next Generation Science Standards In addition they offer ways for students to develop the disciplinary skills outlined in the Common Core State Standards Many of today's teachers like you want to find new ways to engage students in scientific practices and help students learn more from lab activities Argument Driven Inquiry in Biology does all of this even as it gives students the chance to practice reading writing speaking and using math in the context of science

New frontiers in the application of stable isotopes to ecological and ecophysiological research Keith Alan Hobson,John Whiteman,Seth Newsome,2023-08-14 [Marine Ecosystem Assessment for the Southern Ocean: Meeting the Challenge for Conserving Earth Ecosystems in the Long Term](#) Monica M. C. Muelbert,2024-12-24 National and international agencies need assessments of change in ecosystems and their drivers in order to sustain natural systems to maintain the delivery of services and to meet the challenge for conserving Earth ecosystems in the long term In marine systems change may arise directly from human activities e.g fisheries indirectly from local or global activities cascading effects through food webs from fisheries or changing environments from climate change and or ocean acidification or from naturally varying processes A particular challenge for managers is to identify how dangerous future climate change will be for ecosystems and their services and whether mitigation or adaptation may be needed in advance in order to achieve the conservation requirements For regions of international attention particularly those that have the attention of many management or policy oriented bodies a standardized process is needed to harmonize the scientific information on the status and trends in ecosystems used by the different bodies That process also needs to ensure the information is available in a timely manner For example assessments of change in habitats species and or food webs in the Southern Ocean are currently compiled separately for at least ten different international organizations or processes A

Marine Ecosystem Assessment for the Southern Ocean MEASO aims to harmonize that information for policy makers This assessment began with an international conference in April 2018 <http://www.measo2018.aq> where it was agreed to undertake the first MEASO over 2018-2019 with the view to provide the outcomes to relevant bodies such as the Scientific Committee for the Conservation of Antarctic Marine Living Resources soon after *Selected Water Resources Abstracts*, 1991

Ecology Abstracts, 1998 Coverage 1982 current updated monthly This database covers current ecology research across a wide range of disciplines reflecting recent advances in light of growing evidence regarding global environmental change and destruction Major areas of subject coverage include Algae lichens Animals Annelids Aquatic ecosystems Arachnids Arid zones Birds Brackish water Bryophytes pteridophytes Coastal ecosystems Conifers Conservation Control Crustaceans Ecosystem studies Fungi Grasses Grasslands High altitude environments Human ecology Insects Legumes Mammals Management Microorganisms Molluscs Nematodes Paleo ecology Plants Pollution studies Reptiles River basins Soil TAiga tundra Terrestrial ecosystems Vertebrates Wetlands Woodlands *The Scientist*, 1999-07 *Ecological Society of America ... Annual Meeting Abstracts* Ecological Society of America. Meeting, 2000 **General Zoology** Stephen A. Miller, 2001-05-25 Provides exercises and experiences that should help students understand the general principles that unite animal biology appreciate the diversity found in the animal kingdom and understand the evolutionary relationships and become familiar with the structure of vertebrate organ systems *Choice*, 2000 *Canadian Journal of Zoology*, 2011 **Index de Périodiques Canadiens**, 1999 *Forthcoming Books* Rose Arny, 2001 **Meetings Abstracts**, 2006 *Science Citation Index*, 1992 Vols for 1964 have guides and journal lists *Living in the Environment* George Tyler Miller, 1998 This book is designed to be used in introductory courses on environmental science It treats environmental science as an interdisciplinary study combining ideas and information from natural sources and social sciences **Yearbook of International Organizations 2014-2015 (Volume 3)** Union Of International Associations, Union of International Associations, 2014-08-20 The Yearbook of International Organizations provides the most extensive coverage of non profit international organizations currently available Detailed profiles of international non governmental and intergovernmental organizations IGO collected and documented by the Union of International Associations can be found here In addition to the history aims and activities of international organizations with their events publications and contact details the volumes of the Yearbook include networks between associations biographies of key people involved and extensive statistical data Volume 3 allows readers to locate organizations by subjects or by fields of activity and specialization and includes an index to Volumes 1 through 3 **Food Webs** John C. Moore, Peter C. de Ruiter, Kevin S. McCann, 2018 This book presents new approaches to studying food webs using practical and policy examples to demonstrate the theory behind ecosystem management decisions **Food Webs and Biodiversity** Axel G. Rossberg, 2013-06-03 Food webs have now been addressed in empirical and theoretical research for more than 50 years Yet even elementary foundational issues are still hotly debated One difficulty is that a multitude of

processes need to be taken into account to understand the patterns found empirically in the structure of food webs and communities Food Webs and Biodiversity develops a fresh comprehensive perspective on food webs Mechanistic explanations for several known macroecological patterns are derived from a few fundamental concepts which are quantitatively linked to field observables An argument is developed that food webs will often be the key to understanding patterns of biodiversity at community level Key Features Predicts generic characteristics of ecological communities in invasion extirpation equilibrium Generalizes the theory of competition to food webs with arbitrary topologies Presents a new testable quantitative theory for the mechanisms determining species richness in food webs and other new results Written by an internationally respected expert in the field With global warming and other pressures on ecosystems rising understanding and protecting biodiversity is a cause of international concern This highly topical book will be of interest to a wide ranging audience including not only graduate students and practitioners in community and conservation ecology but also the complex systems research community as well as mathematicians and physicists interested in the theory of networks This is a comprehensive work outlining a large array of very novel and potentially game changing ideas in food web ecology Ken Haste Andersen Technical University of Denmark I believe that this will be a landmark book in community ecology it presents a well established and consistent mathematical theory of food webs It is testable in many ways and the author finds remarkable agreements between predictions and reality G za Mesz na E tv s University Budapest **Energetic Food Webs** John C. Moore, Peter C. de Ruiter, 2012-05-31 Food webs describe biological communities in terms of feeding interactions This book integrates the latest work on community dynamics ecosystems energetics and stability to dispel categorisation of the field into separate subdisciplines of population community and ecosystem ecology Dynamic Food Webs Peter Cornelis De Ruiter, Volkmar Wolters, John C. Moore, 2005 Dynamic Food Webs challenges us to rethink what factors may determine ecological and evolutionary pathways of food web development It touches upon the intriguing idea that trophic interactions drive patterns and dynamics at different levels of biological organization dynamics in species composition dynamics in population life history parameters and abundances and dynamics in individual growth size and behavior These dynamics are shown to be strongly interrelated governing food web structure and stability and the role of populations and communities play in ecosystem functioning Dyanmic Food Webs not only offers over 100 illustrations but also contains 8 riveting sections devoted to an understanding of how to manage the effects of environmental change the protection of biological diversity and the sustainable use of natural resources Dyanmic Food Webs is a volume in the Theoretical Ecology series Relates dynamics on different levels of biological organization individuals populations and communities Deals with empirical and theoretical approaches Discusses the role of community food webs in ecosystem functioning Proposes methods to assess the effects of environmental change on the structure of biological communities and ecosystem functioning Offers an analyses of the relationship between complexity and stability in food webs

Whispering the Techniques of Language: An Mental Quest through **Lab 11 Ecosystems And Biodiversity How Does Food Web**

In a digitally-driven earth where displays reign great and instant conversation drowns out the subtleties of language, the profound secrets and psychological subtleties concealed within phrases usually go unheard. Yet, nestled within the pages of **Lab 11 Ecosystems And Biodiversity How Does Food Web** a charming literary treasure pulsating with raw thoughts, lies an exceptional quest waiting to be undertaken. Published by a skilled wordsmith, that charming opus attracts readers on an introspective journey, lightly unraveling the veiled truths and profound impact resonating within the very fabric of every word. Within the psychological depths of this moving evaluation, we can embark upon a genuine exploration of the book is core themes, dissect their captivating writing fashion, and succumb to the effective resonance it evokes serious within the recesses of readers hearts.

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