


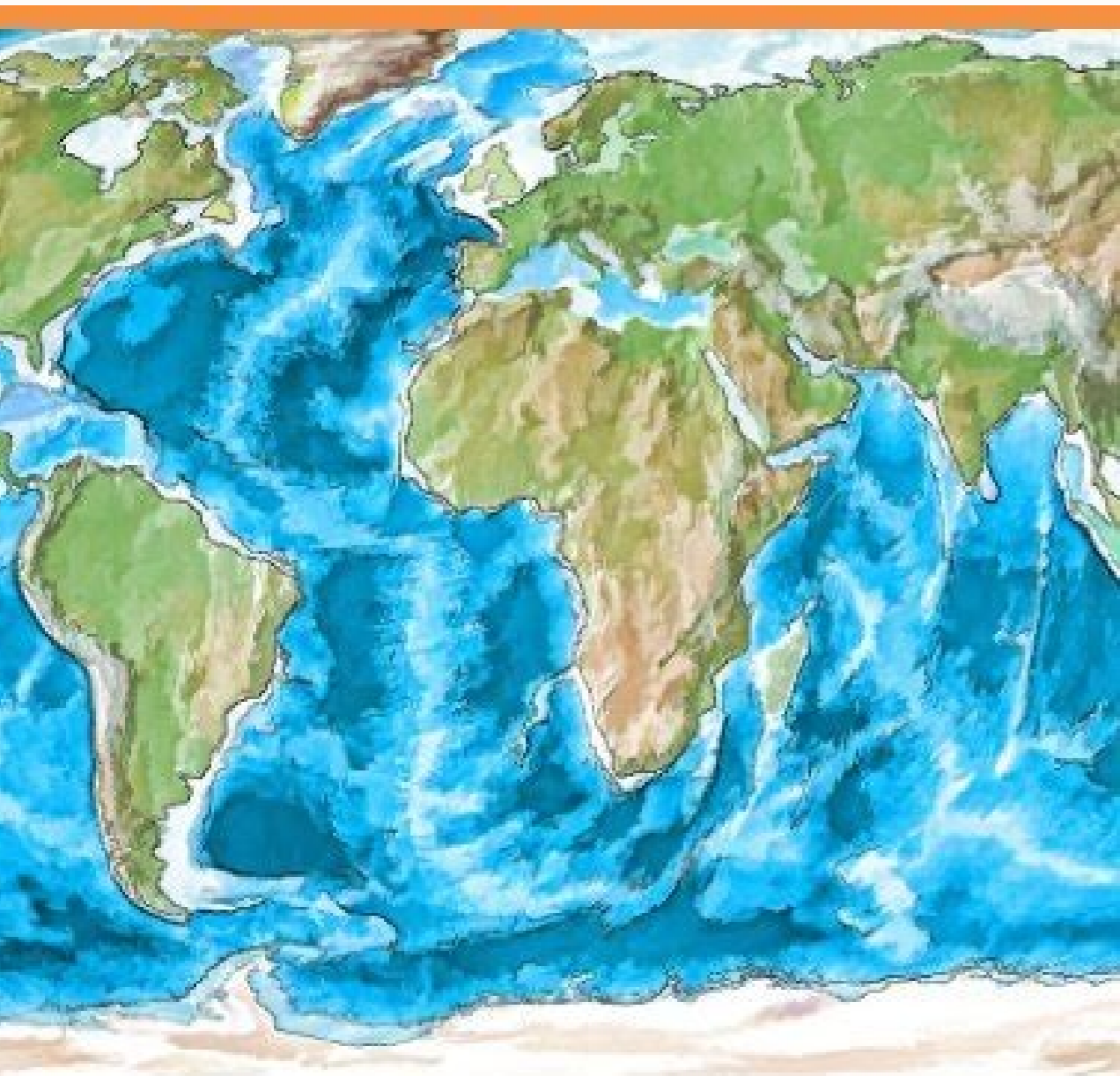
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Biogeography: a brief introduction

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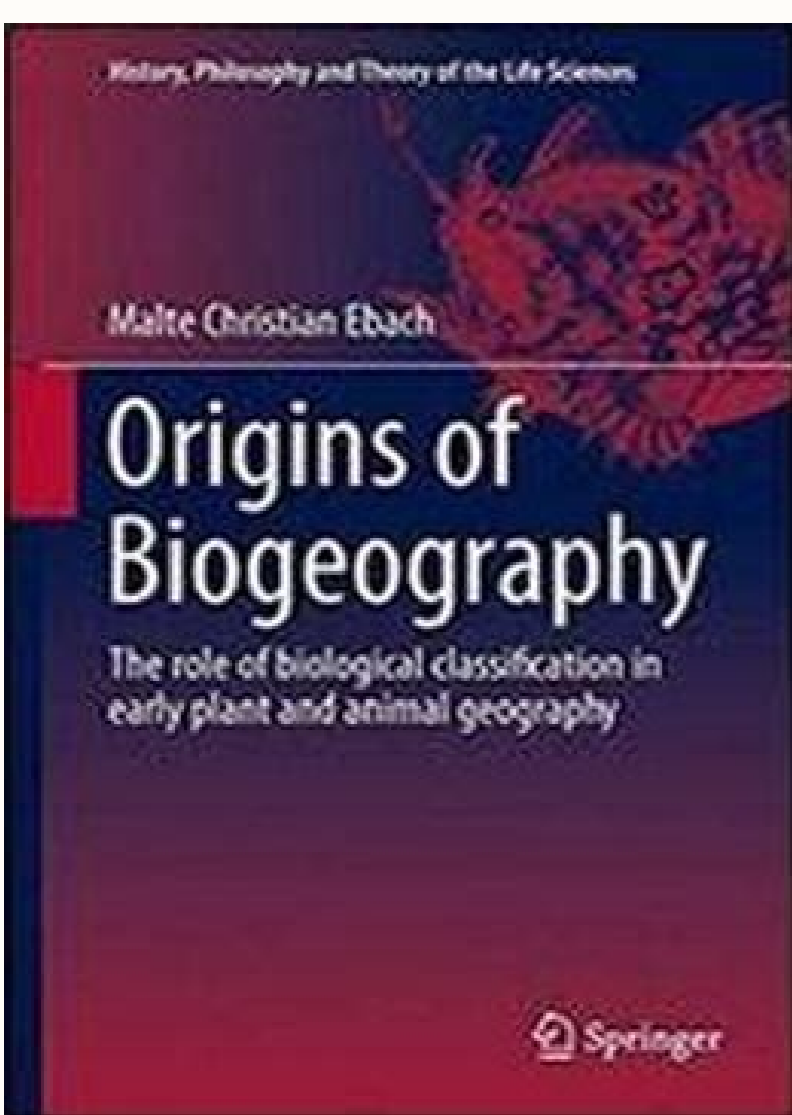
Biotic Evolution and Environmental Change in Southeast Asia



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Chapter 15

Biogeography of the Japanese Gourmet Fungus, *Tricholoma matsutake*: A Review of the Distribution and Functional Ecology of Matsutake

Lu-Min Vaario, Xuefei Yang, and Akiyoshi Yamada

15.1 Introduction

Tricholoma matsutake, an ectomycorrhizal (EcM) fungus, is regarded as one of the most desirable mushrooms in the world (Hall et al. 2003). The first research concerning *T. matsutake* was published in Japan over 100 years ago and the field has since grown into a community of researchers in Asia (Ogawa 1978; Yamada et al. 1999; Gong et al. 1999), North America (Hosford et al. 1997; Chapela and Garbelotto 2004) and Europe (Bergius and Danell 2000; Vaario et al. 2010) due to its high value as a non-timber forest product in Japan and the Far East. Recently, global climate change and over-harvesting have raised serious concerns about the resource status and sustainability of matsutake populations.

Typically, EcM fungi enhance the nutrient uptake of their host tree and import carbohydrates to the ectomycorrhizosphere through the root-mycelium interface. The ectomycorrhizosphere, which forms a specific interface between the soil and the symbiotic fungi, harbors a large and diverse community of microorganisms that can either inhibit or enhance each other (Smith and Read 2008). The identity of the host-tree and soil characteristics are considered key elements defining the preferred habitat of matsutake and can affect its subsequent productivity. Detailed studies of *T. matsutake* in natural settings led by M. Ogawa during the 1960s and 1970s

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Barry Cox was formerly Head of Biological Sciences, King's College, London, UK. Richard J. Read it a friend or family member to see if they can provide any feedback. The text, noted for its clear and engaging style of writing, has been praised for its solid background in historical biogeography and basic biology, that is enhanced and illuminated by discussions of current research. This new edition incorporates the exciting changes of the recent years and presents a thoughtful exploration of the research and controversies that have transformed our understanding of the biogeography of the world. If you didn't create an outline before, now is the time to do so. He has written extensively on ecology and global environmental change and was, for 35 years, Ecology Correspondent for the journal Nature. Moore is Emeritus Reader in Ecology at King's College London. Many teachers and professors ask students to do this to ensure they read and understand the material they've assigned. Be straightforward about the title and author of the book and give a general idea in a sentence or two of what it's about. You may want to introduce a setting here too. Once you're certain it's complete, you can turn it in to your teacher or professor. The ultimate goal is for the reader to know exactly what the book was about, even if he or she has never read it. Try putting yourself in the reader of your summary's shoes. Keep an outline of the plot. For example, if you read "Gone with the Wind," you may start with something like "Set during the Civil War, Gone with the Wind by Margaret Mitchell is an epic novel that tells the story of a young Southern woman in Georgia, her love affairs and her attempts to save her family plantation while the South burns down around her." Organize Your Notes to Create the Body Once you've introduced the book with a few sentences, it's time to write the body of the summary. You'll want to start with a strong introduction that tells the reader exactly what you want them to know. Were there themes present throughout the book? Contents Preface xiii Acknowledgements xv1 Introduction 1 Section I: The Challenge of Existing 372 Patterns of Distribution: Finding a Home 393 Communities and Ecosystems: Living Together 97 Section II: The Engines of the Planet 1574 Patterns of Biodiversity 1275 Plate Tectonics 159 Section III: Islands and Oceans 1976 Evolution, the Source of Novelty 1797 Life, Death and Evolution on Islands 199 Section IV: Historical Biogeography 2698 Patterns in the Oceans 2359 From Evolution to Patterns of Life 27110 Geography, Life and Climates Through Time 29111 Patterns of Life Today 327 Section V: People and Problems 40912 The Arrival of the Ice Ages 36713 The Human Intrusion 41114 Conservation Biogeography Glossary 471 Index 481 Colour plates between pages 240 and 241 Customer Reviews C. you'll also need to know how long the summary should be. Remember, you're not rewriting the book entirely — just picking out the most important details and retelling them in your voice. Your teacher may want it to be at least a page or two or so many words so that you can show that you really understood what you read. As soon as you have the book in hand, whether your teacher assigned it or you chose it yourself, you should grab a pen and notebook to keep with you at all times. What would you need to know to understand what the book was about? Organize your points in order in paragraph form. Not only do you want to check for spelling and grammar errors, but you'll want to make sure the description flows from point to point and makes sense. You can also make note when you find something interesting or you see something you need to understand better. MORE FROM QUESTIONSANSWERED.NET Score: 0% Rank: Correct Answer: Start Quiz >> Click to have a closer look About this book Contents Customer reviews Biography Through nine successful editions, and for over 45 years, Biogeography: An Ecological and Evolutionary Approach has provided a thorough and comprehensive exploration of the varied scientific disciplines and research that are essential to understanding the subject. Did he or she assign a particular book, or can you select your own? Now, it's time to start writing the summary. This is where you'll turn to your notes. Try reading it out loud to yourself to see how it sounds when you hear it. Edit and Proofread Once you've finished, read over your summary a few times to make sure it makes sense. Ladle is Titular Professor of Conservation Biogeography at the Federal University of Alagoas on the north-east coast of Brazil. Showing 1-50 of 121 CC0/@jindstrom/Pixabay When a teacher or anyone else asks you to write a book summary, he or she is requesting that you read a book and write a short account that explains the main plot points, characters and any other important information in your own words. New themes and topics in this tenth edition include: Next generation genetic technologies and their use in historical biogeography, phylogeography and population genomics- Biogeographical databases and biodiversity information systems, which are becoming increasingly important for biogeographical research- An introduction to functional biogeography and its applications to community assembly, diversity gradients and the analysis of ecosystem functioning- Updated case studies focusing on island biogeography, using the latest phylogenetic studies Biogeography: An Ecological and Evolutionary Approach reveals how the patterns of life that we see today have been created by the two great Engines of the Planet: the Geological Engine, plate tectonics, which alters the conditions of life on the planet, and the Biological Engine, evolution, which responds to these changes by creating new forms and patterns of life. He is also a Senior Research Associate at the School of Geography in Oxford University, as well as the director of Tamandua Environmental Consultants. Peter D. Once you've finished the body, add a conclusion that gives the reader an understanding of significance of the book. Make a list of the characters and their problems and goals. If you're currently working on your first book summary, here's how to do it: Know the Assignment and Choose a Book Before you get started, you need to know what your teacher expects from you. Anytime you read a chapter or two, you'll want to take notes about what you read. The reader of your summary should have an understanding of the book without having ever read it. Did it teach a lesson, or was there a moral to the story? Create an Introduction Once you finish the book, you should have a few pages of notes and a good understanding of what happened, who the main characters were and all of the important plot points.

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