

Ecology and Evolution in Anoxic Worlds (Oxford Series in Ecology & Evolution)

Fenchel, Tom

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Ecology And Evolution In Anoxic Worlds

Michael Denton



Ecology And Evolution In Anoxic Worlds:

Ecology and Evolution in Anoxic Worlds Tom Fenchel, Bland J. Finlay, 1995 Interactions with the oxic world are explored in the last chapter The ecological and evolutionary significance of the arrival of oxygen in the Proterozoic is discussed in detail especially as it eventually led to the possibility of long food chains *Evolutionary Ecology* Anne E. Magurran, 2005-08-25 The Trinidadian guppy represents a uniquely tractable vertebrate system which has raised key questions in evolutionary ecology and supplied many of the answers This work discusses this study and incorporates significant new findings and insights *Stochastic Population Dynamics in Ecology and Conservation* Russell Lande, Steinar Engen, Bernt-Erik Sæther, 2003 All populations fluctuate stochastically creating a risk of extinction that does not exist in deterministic models with fundamental consequences for both pure and applied ecology This book provides the most comprehensive introduction to stochastic population dynamics combining classical background material with a variety of modern approaches including new and previously unpublished results by the authors illustrated with examples from bird and mammal populations and insect communities Demographic and environmental stochasticity are introduced with statistical methods for estimating them from field data The long run growth rate of a population is explained and extended to include age structure with both demographic and environmental stochasticity Diffusion approximations facilitate the analysis of extinction dynamics and the duration of the final decline Methods are developed for estimating delayed density dependence from population time series using life history data Metapopulation viability and the spatial scale of population fluctuations and extinction risk are analyzed Stochastic dynamics and statistical uncertainty in population parameters are incorporated in Population Viability Analysis and strategies for sustainable harvesting Statistics of species diversity measures and species abundance distributions are described with implications for rapid assessments of biodiversity and methods are developed for partitioning species diversity into additive components Analysis of the stochastic dynamics of a tropical butterfly community in space and time indicates that most of the variance in the species abundance distribution is due to ecological heterogeneity among species so that real communities are far from neutral **Mitonuclear Ecology** Geoffrey E. Hill, 2019-04-30 This novel text provides a concise synthesis of how the interactions between mitochondrial and nuclear genes have played a major role in shaping the ecology and evolution of eukaryotes The foundation for this new focus on mitonuclear interactions originated from research in biochemistry and cell biology laboratories although the broader ecological and evolutionary implications have yet to be fully explored The imperative for mitonuclear coadaptation is proposed to be a major selective force in the evolution of sexual reproduction and two mating types in eukaryotes in the formation of species in the evolution of ornaments and sexual selection in the process of adaptation and in the evolution of senescence The book highlights the importance of mitonuclear coadaptation to the evolution of complex life and champions mitonuclear ecology as an important subdiscipline in ecology and evolution **Algae and Cyanobacteria in Extreme Environments** Joseph

Seckbach,2007-09-25 This collection of essays is devoted to algae that are unexpectedly found in harsh habitats The authors explain how these algae thrive in various temperature ranges extreme pH values salt solutions UV radiation dryness heavy metals anaerobic niches various levels of illumination and hydrostatic pressure Not only do the essays provide clues about life on the edges of the Earth but possibly elsewhere in the universe as well **Anoxia** Alexander Altenbach,Joan M. Bernhard,Joseph Seckbach,2011-10-20 ANOXIA defines the lack of free molecular oxygen in an environment In the presence of organic matter anaerobic prokaryotes produce compounds such as free radicals hydrogen sulfide or methane that are typically toxic to aerobes The concomitance of suppressed respiration and presence of toxic substances suggests these habitats are inhospitable to Eukaryota Ecologists sometimes term such environments Death Zones This book presents however a collection of remarkable adaptations to anoxia observed in Eukaryotes such as protists animals plants and fungi Case studies provide evidence for controlled beneficial use of anoxia by for example modification of free radicals use of alternative electron donors for anaerobic metabolic pathways and employment of anaerobic symbionts The complex interwoven existence of oxic and anoxic conditions in space and time is also highlighted as is the idea that eukaryotic inhabitation of anoxic habitats was established early in Earth history **Nature's Destiny** Michael Denton,2002-02 A leading evolutionary thinker biologist and medical researcher asks the question Could life elsewhere be substantially different from life on Earth and builds a step by step argument for human inevitability 65 illustrations photos **Ecological Speciation** Patrik Nosil,2012-03-15 It then reviews the three components of ecological speciation and discusses the geography and genomic basis of the process *Quantitative Ecology and Evolutionary Biology* Otso Ovaskainen,Henrik Johan de Knecht,Maria del Mar Delgado,2016-09-01 This novel interdisciplinary text achieves an integration of empirical data and theory with the aid of mathematical models and statistical methods The emphasis throughout is on spatial ecology and evolution especially on the interplay between environmental heterogeneity and biological processes The book provides a coherent theme by interlinking the modelling approaches used for different subfields of spatial ecology movement ecology population ecology community ecology and genetics and evolutionary ecology each being represented by a separate chapter Each chapter starts by describing the concept of each modelling approach in its biological context goes on to present the relevant mathematical models and statistical methods and ends with a discussion of the benefits and limitations of each approach The concepts and techniques discussed throughout the book are illustrated throughout with the help of empirical examples This is an advanced text suitable for any biologist interested in the integration of empirical data and theory in spatial ecology evolution through the use of quantitative statistical methods and mathematical models The book will also be of relevance and use as a textbook for graduate level courses in spatial ecology ecological modelling theoretical ecology and statistical ecology **Encyclopedia of Microbiology** ,2009-01-14 Available as an exclusive product with a limited print run Encyclopedia of Microbiology 3e is a comprehensive survey of microbiology edited by world class researchers Each article is

written by an expert in that specific domain and includes a glossary list of abbreviations defining statement introduction further reading and cross references to other related encyclopedia articles Written at a level suitable for university undergraduates the breadth and depth of coverage will appeal beyond undergraduates to professionals and academics in related fields 16 separate areas of microbiology covered for breadth and depth of content Extensive use of figures tables and color illustrations and photographs Language is accessible for undergraduates depth appropriate for scientists Links to original journal articles via Crossref 30% NEW articles and 4 color throughout NEW **Energetic Food Webs** John C. Moore, Peter C. de Ruiter, 2012-05-31 This novel book bridges the gap between the energetic and species approaches to studying food webs addressing many important topics in ecology Species matter and energy are common features of all ecological systems Through the lens of complex adaptive systems thinking the authors explore how the inextricable relationship between species matter and energy can explain how systems are structured and how they persist in real and model systems Food webs are viewed as open and dynamic systems The central theme of the book is that the basis of ecosystem persistence and stability rests on the interplay between the rates of input of energy into the system from living and dead sources and the patterns in utilization of energy that result from the trophic interactions among species within the system To develop this theme the authors integrate the latest work on community dynamics ecosystem energetics and stability In so doing they present a unified ecology that dispels the categorization of the field into the separate subdisciplines of population community and ecosystem ecology Energetic Food Webs is suitable for both graduate level students and professional researchers in the general field of ecology It will be of particular relevance and use to those working in the specific areas of food webs species dynamics material and energy cycling as well as community and ecosystem ecology

Mitochondria and Anaerobic Energy Metabolism in Eukaryotes William F. Martin, Aloysius G. M. Tielens, Marek Mentel, 2020-12-07 Mitochondria are sometimes called the powerhouses of eukaryotic cells because mitochondria are the site of ATP synthesis in the cell ATP is the universal energy currency it provides the power that runs all other life processes Humans need oxygen to survive because of ATP synthesis in mitochondria The sugars from our diet are converted to carbon dioxide in mitochondria in a process that requires oxygen Just like a fire needs oxygen to burn our mitochondria need oxygen to make ATP From textbooks and popular literature one can easily get the impression that all mitochondria require oxygen But that is not the case There are many groups of organisms known that make ATP in mitochondria without the help of oxygen They have preserved biochemical relicts from the early evolution of eukaryotic cells which took place during times in Earth history when there was hardly any oxygen available certainly not enough to breathe How the anaerobic forms of mitochondria work in which organisms they occur and how the eukaryotic anaerobes that possess them fit into the larger picture of rising atmospheric oxygen during Earth history are the topic of this book **Animal Evolution** NATURAL SCIENCES and MATHEMATICS (500), ZOOLOGICAL SCIENCES (590), 2009-08-13 Animal life now and over the past half

billion years is incredibly diverse Describing and understanding the evolution of this diversity of body plans from vertebrates such as humans and fish to the numerous invertebrate groups including sponges insects molluscs and the many groups of worms is a major goal of evolutionary biology In this book a group of leading researchers adopt a modern integrated approach to describe how current molecular genetic techniques and disciplines as diverse as palaeontology embryology and genomics have been combined resulting in a dramatic renaissance in the study of animal evolution The last decade has seen growing interest in evolutionary biology fuelled by a wealth of data from molecular biology Modern phylogenies integrating evidence from molecules embryological data and morphology of living and fossil taxa provide a wide consensus of the major branching patterns of the tree of life moreover the links between phenotype and genotype are increasingly well understood This has resulted in a reliable tree of relationships that has been widely accepted and has spawned numerous new and exciting questions that require a reassessment of the origins and radiation of animal life The focus of this volume is at the level of major animal groups the morphological innovations that define them and the mechanisms of change to their embryology that have resulted in their evolution Current research themes and future prospects are highlighted including phylogeny reconstruction comparative developmental biology the value of different sources of data and the importance of fossils homology assessment character evolution phylogeny of major groups of animals and genome evolution These topics are integrated in the light of a new animal phylogeny to provide fresh insights into the patterns and processes of animal evolution Animal Evolution provides a timely and comprehensive statement of progress in the field for academic researchers requiring an authoritative balanced and up to date overview of the topic It is also intended for both upper level undergraduate and graduate students taking courses in animal evolution molecular phylogenetics evo devo comparative genomics and associated disciplines

The Changing Wildlife of Great Britain and Ireland David L. Hawksworth, 2003-06-26 Periodic comprehensive overviews of the status of the diverse organisms that make up wildlife are essential to determining trends threats and future prospects Just over 25 years ago leading authorities on different kinds of wildlife came together to prepare an assessment of their status of a wide range of organisms in Great Britain and Ireland i

Respiration in Aquatic Ecosystems Paul del Giorgio, Peter Williams, 2005-01-06 Respiration represents the major area of ignorance in our understanding of the global carbon cycle In spite of its obvious ecological and biogeochemical importance most oceanographic and limnological textbooks invariably deal with respiration only superficially and as an extension of production and other processes The objective of this book is to fill this gap and to provide the first comprehensive review of respiration in the major aquatic systems of the biosphere The introductory chapters review the general importance of respiration in aquatic systems and deal with respiration within four key biological components of aquatic systems bacteria algae heterotrophic protists and zooplankton The aim of this first part is to provide the backbone for the analysis and interpretation of ecosystem level respiration in a variety of aquatic environments The central chapters of the book review

respiration in major aquatic ecosystems including freshwater wetlands lakes and rivers estuaries coastal and open ocean and pelagic ecosystems as well as respiration in suboxic environments For each major ecosystem the corresponding chapter provides a synthesis of methods used to assess respiration outlines the existing information and data on respiration discusses its regulation and link to biotic and abiotic factors and finally provides regional and global estimates of the magnitude of respiration The final chapter provides a general synthesis of the information and data provided in the different sections and further attempts to place aquatic respiration within the context of the global carbon budget

The Evolution of Parasitism - A Phylogenetic Perspective, 2003-12-09 Parasitology continues to benefit from taking an evolutionary approach to its study Tree construction character mapping tree based evolutionary interpretation and other developments in molecular and morphological phylogenetics have had a profound influence and have shed new light on the very nature of host parasite relations and their coevolution Life cycle complexity parasite ecology and the origins and evolution of parasitism itself are all underpinned by an understanding of phylogeny The Evolution of Parasitism A Phylogenetic Perspective aims to bring together a range of articles that exemplifies the phylogenetic approach as applied to various disciplines within parasitology and as applied by parasitologists Unified by the use of phylogenies this book tackles a wide variety of parasite specific biological problems across a diverse range of taxa Includes important contributions from leading minds in the field such as Serge Morand Francisco Ayala and Mark Blaxter among others Second in the ISI Parasitology List in 2002 with an Impact Factor of 4.818 Series encompasses over 35 years of parasitology coverage

Maximum Entropy and Ecology John Harte, 2011-06-23 Provides readers with the concepts and practical tools required to understand the maximum entropy principle and apply it to an understanding of ecological patterns The theory developed predicts realistic forms for all metrics of ecology that describe patterns in the distribution abundance and energetics of species

The Symbiotic Habit Angela E. Douglas, 2021-08-10 Throughout the natural world organisms have responded to predators inadequate resources or inclement conditions by forming ongoing mutually beneficial partnerships or symbioses with different species Symbiosis is the foundation for major evolutionary events such as the emergence of eukaryotes and plant eating among vertebrates and is also a crucial factor in shaping many ecological communities The Symbiotic Habit provides an accessible and authoritative introduction to symbiosis describing how symbioses are established function and persist in evolutionary and ecological time Angela Douglas explains the evolutionary origins and development of symbiosis and illustrates the principles of symbiosis using a variety of examples of symbiotic relationships as well as nonsymbiotic ones such as parasitic or fleeting mutualistic associations Although the reciprocal exchange of benefit is the key feature of symbioses the benefits are often costly to provide causing conflict among the partners Douglas shows how these conflicts can be managed by a single controlling organism that may selectively reward cooperative partners control partner transmission and employ recognition mechanisms that discriminate between beneficial and potentially harmful or ineffective partners The Symbiotic Habit reveals the broad

uniformity of symbiotic process across many different symbioses among organisms with diverse evolutionary histories and demonstrates how symbioses can be used to manage ecosystems enhance food production and promote human health

Oxygen Nick Lane, 2002 Oxygen offers fresh perspectives on our own lives and deaths explaining modern killer diseases why we age and what we can do about it Advancing revelatory new ideas following chains of evidence the book ranges through many disciplines from environmental sciences to molecular medicine Damage to DNA caused by oxidative stress appears to explain aging and many of its diseases hence the popularity in alternative health circles of antioxidants But antioxidants alone fail to prevent aging Lane suggests two different avenues of study modulation of the immune system which generates free radicals as part of its defense against infectious diseases and ways of improving the health of our cellular mitochondria on which many age related ailments seem to depend Provocative and complexly argued Copyright Kirkus Reviews used with permission

Treatise on Geochemistry, 2013-10-19 This extensively updated new edition of the widely acclaimed Treatise on Geochemistry has increased its coverage beyond the wide range of geochemical subject areas in the first edition with five new volumes which include the history of the atmosphere geochemistry of mineral deposits archaeology and anthropology organic geochemistry and analytical geochemistry In addition the original Volume 1 on Meteorites Comets and Planets was expanded into two separate volumes dealing with meteorites and planets respectively These additions increased the number of volumes in the Treatise from 9 to 15 with the index appendices volume remaining as the last volume Volume 16 Each of the original volumes was scrutinized by the appropriate volume editors with respect to necessary revisions as well as additions and deletions As a result 27% were republished without major changes 66% were revised and 126 new chapters were added In a many faceted field such as Geochemistry explaining and understanding how one sub field relates to another is key Instructors will find the complete overviews with extensive cross referencing useful additions to their course packs and students will benefit from the contextual organization of the subject matter Six new volumes added and 66% updated from 1st edition The Editors of this work have taken every measure to include the many suggestions received from readers and ensure comprehensiveness of coverage and added value in this 2nd edition The esteemed Board of Volume Editors and Editors in Chief worked cohesively to ensure a uniform and consistent approach to the content which is an amazing accomplishment for a 15 volume work 16 volumes including index volume

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