

Lauritz Somme

**Invertebrates  
in Hot and Cold  
Arid Environments**



Springer

# Invertebrates In Hot And Cold Arid Environments

**Lauritz Somme**



## **Invertebrates In Hot And Cold Arid Environments:**

**Invertebrates in Hot and Cold Arid Environments** Lauritz Somme, 2012-12-06 Comparisons are made of the adaptations of invertebrates from polar deserts with those of temperate and subtropical deserts. These regions represent some of the most hostile environments on earth and an array of strategies for survival has been developed. Polar species are well adapted to cold and experience arid conditions due to low precipitation and lack of liquid water during the winter. Similarly, temperate desert invertebrates are adapted to dry conditions and are also exposed to low winter temperatures. Terrestrial arthropods maintain their water balance through behavioural and physiological adaptations. Tardigrades and nematodes are remarkable in their ability to lose all their water, enter a state of anhydrobiosis, and be revived when moisture becomes available again. *Energetics of Desert Invertebrates* Harold Heatwole, 2012-12-06 Desert invertebrates live in an environment where resources alternate unpredictably between brief periods of plenty and prolonged scarcity. This book describes the adaptive strategies of desert invertebrates in acquiring energy and sustaining life under such vicissitudes. Some cooperate in foraging, others compete for resources. Some are nomadic and migrate to more favorable sites as conditions change. Others conserve energy by going into a deep dormancy until better conditions return. Still others store food during plenty and retreat underground during less favorable times. The adaptive modes of husbanding scarce energy resources are diverse and lead to an appreciation of the intricate interactions of animals living near their environmental limits.

*Ecophysiology of Economic Plants in Arid and Semi-Arid Lands* Gerald E. Wickens, 2013-04-17 This book deals with arid and semi-arid environments and their classification and the physiological restraints and adaptations of plants to the environment. Further, it discusses economic botany and the needs and methods of conserving economic plants. A broad view is taken regarding the definition of economic plants, taking into account their value to the environment as well as to man and to livestock. The individual deserts and associated semi-arid regions are described in separate chapters, providing background information on the regional environments in terms of climate and major plant formations. The economic plants within these formations, their usages, geographical distribution, together with their morphological and physiological adaptations, are treated in detail. *Ecophysiology of Amphibians Inhabiting Xeric Environments* Michael Warburg, 2012-12-06 Scarcity of water has brought about a number of structural, behavioural, physiological, and ecological adaptations in amphibians inhabiting seasonally xeric habitats. This book describes structural and functional adaptations of key organs such as skin, kidneys, bladder, lungs, and ovaries. Behavioural responses to high temperatures mainly involve thermoregulation and the selection of optimal temperatures and humidity. Special emphasis is placed on physiological adaptations: water, electrolyte, nitrogen, and thermal balance, and their endocrine control are treated in detail. Development and metamorphosis, larval competition for food resources, and reproductive strategies are only a few of the exciting topics in the chapter on ecological aspects. *Review of Invertebrates in hot and cold arid environments* by L. Somme. Berlin, Springer-Verlag, 1995 P.

CONVEY,1996      Cold-Adapted Organisms Rosa Margesin,Franz Schinner,2013-03-14 Major parts of the oceans and lands of our planet are permanently or temporarily exposed to temperatures below 10 C Microorganisms plants and animals living under these conditions have adapted to their environments in such a way that metabolic processes reproduction and survival strategies are optimal for their natural biotopes This book presents the most recent knowledge of the ecology and the physiology of cold adapted microorganisms plants and animals and explains the mechanisms of cold adaptation on the enzymatic and molecular level including results from the first crystal structures of enzymes of cold adapted organisms

**The Biology of Polar Regions** D. N. Thomas,G. E. Fogg,P. Convey,C. H. Fritsen,J. -M. Gili,R. Gradinger,J. Laybourn-Parry,K. Reid,D. W. H. Walton,2008-03-20 There is now an increased awareness of the importance of polar regions in the Earth system as well as their vulnerability to anthropogenic derived change including of course global climate change This new edition offers a concise but comprehensive introduction to polar ecology and has been thoroughly revised and updated throughout providing expanded coverage of marine ecosystems and the impact of humans It incorporates a detailed comparison of the Arctic and Antarctic systems with a particular emphasis on the effects of climate change and describes marine freshwater glacial and terrestrial habitats This breadth of coverage is unique in the polar biology literature As with other titles in the Biology of Habitats Series particular emphasis is placed on the organisms that dominate these extreme environments although pollution conservation and experimental aspects are also considered This accessible text is suitable for both senior undergraduate and graduate students taking courses in polar ecology often as part of a wider marine biology degree programme It will also be of value and use to the many professional ecologists and conservation biologists requiring a concise overview of the topic      **Biotic Interactions in Arid Lands** John L. Cloudsley-Thompson,2012-12-06 The

exigencies of life in the desert environment have resulted in the selection of a diversity of adaptations both morphological and physiological in the flora and fauna At the same time many plants and most small animals are able not merely to exist but even to thrive under desert conditions mainly by avoiding thermal extremes and by the refinement of pre existing abilities to economise in water In the same way the biotic interactions of the flora and fauna of the desert do not involve many new principles Nevertheless conditions in arid regions frequently do invoke refinements of the complex interrelations between predators and their prey parasites and their hosts as well as between herbivores and the plants upon which they feed In this book I shall discuss not only such interactions and their feedback effects but also community processes and population dynamics in the desert The physical conditions of the desert that principally affect predators and their prey are its openness and the paucity of cover This is restricted to scattered plants occasional rocks holes and crevices in the ground Furthermore nightfall does not confer relative invisibility as it does in many other ecobiomes because of the clarity of the atmosphere The bright starlight of the desert renders nearby objects visible even to the human eye while an incandescent moon bathes the empty landscape with a flood of silver light Consequently adaptive coloration is functional at all hours of

the day and night      **Desert Arthropods: Life History Variations** Fred Punzo, 2013-03-14 It is difficult for me to recollect a time when I was not fascinated with the very notion of a desert Walt Disney's film The Living Desert which I initially saw when I was 8 years of age provided me with my first glimpse of this wondrous yet seemingly hostile environment The images were hypnotic and captivating I looked on in amazement at the promenade of the male and female scorpions during courtship Their rhythmic and coordinated movements as they grasped one another made them appear to glide in unison over the surface of the sand each individual totally absorbed with its partner In the next minute the female had suddenly and utterly transformed herself like some Jekyll and Hyde act into an aggressive predator whose prior gregarious embrace was now a hold of death for the male The indomitable desert grasshopper mouse the ever sentient kit fox the graceful shovel nosed snake swimming in an endless sea of sand      **Antarctica** D. W. H. Walton, 2013 A dramatically illustrated book by leading international scientists which describes Antarctica's central role in global scientific research      **Polyextremophiles** Joseph Seckbach, Aharon Oren, Helga Stan-Lotter, 2013-05-13 Many Microorganisms and some macro organisms can live under extreme conditions For example high and low temperature acidic and alkaline conditions high salt areas high pressure toxic compounds high level of ionizing radiation anoxia and absence of light etc Many organisms inhabit environments characterized by more than one form of stress Polyextremophiles Among them are those who live in hypersaline and alkaline hot and acidic cold hot and high hydrostatic pressure etc Polyextremophiles found in desert regions have to cope with intense UV irradiation and desiccation high as well as low temperatures and low availability of water and nutrients This book provides novel results of application to polyextremophiles research ranging from nanotechnology to synthetic biology to the origin of life and beyond      **Antarctica** David W. H. Walton, 2013-03-28 Antarctica is the coldest and driest continent on Earth a place for adventure and a key area for global science Research conducted there has received increasing international attention due to concerns over destruction of the ozone layer and the problem of global warming and melting ice shelves This dramatically illustrated new book brings together an international group of leading Antarctic scientists to explain why the Antarctic is so central to understanding the history and potential fate of our planet It introduces the beauty of the world's greatest wilderness its remarkable attributes and the global importance of the international science done there Spanning topics from marine biology to space science this book is an accessible overview for anyone interested in the Antarctic and its science and governance It provides a valuable summary for those involved in polar management and is an inspiration for the next generation of Antarctic researchers      *Dormancy and Resistance in Harsh Environments* Esther Lubzens, Joan Cerda, Melody Clark, 2010-07-30 Many organisms have evolved the ability to enter into and revive from a dormant state They can survive for long periods in this state often even months to years yet can become responsive again within minutes or hours This is often but not necessarily associated with desiccation Preserving one's body and reviving it in future generations is a dream of mankind To date however we have failed to learn how cells tissues or entire organisms can be made dormant or

be effectively revived at ambient temperatures In this book studies on organisms ranging from aquatic cyanobacteria that produce akinetes to hibernating mammals are presented and reveal common but also divergent physiological and molecular pathways for surviving in a dormant form or for tolerating harsh environments Attempting to learn the functions associated with dormancy and how they are regulated is one of the great future challenges Its relevance to the preservation of cells and tissues is one of the key concerns of this book *Structure-Function Relations of Warm Desert Plants* Arthur C.

Gibson,2012-12-06 For centuries biologists have been extremely interested in the structure of desert plants as examples of natural selection to harsh environmental conditions Indeed desert plants are frequently used as examples in many biology classes and textbooks to illustrate natural selection but this has led to an unfortunate litany of errors and misconceptions about desert plant adaptations This new synthesis focuses on plants of lowland tropical and subtropical arid deserts Readers will be surprised to discover that many features commonly ascribed to desert plants are rarely observed in the most common species Instead the typical structural adaptations of nonsucculent warm desert plants are now viewed as ways to maximize photosynthetic rate **Encyclopedia of Deserts** Michael A. Mares,2017-01-19 Encyclopedia of Deserts

represents a milestone it is the first comprehensive reference to the first comprehensive reference to deserts and semideserts of the world Approximately seven hundred entries treat subjects ranging from desert survival to the way deserts are formed Topics include biology birds mammals reptiles amphibians fishes invertebrates plants bacteria physiology evolution geography climatology geology hydrology anthropology and history The thirty seven contributors including volume editor Michael A Mares have had extensive careers in deserts research encompassing all of the world's arid and semiarid regions The Encyclopedia opens with a subject list by topic an organizational guide that helps the reader grasp interrelationships and complexities in desert systems Each entry concludes with cross references to other entries in the volume inviting the reader to embark on a personal expedition into fascinating previously unknown terrain In addition a list of important readings facilitates in depth study of each topic An exhaustive index permits quick access to places topics and taxonomic listings of all plants and animals discussed More than one hundred photographs drawings and maps enhance our appreciation of the remarkable life landforms history and challenges of the world's arid land *Survival Strategies of*

*Annual Desert Plants* Yitzchak Gutterman,2012-12-06 Annual desert plant species of unrelated taxa in the Negev Desert of Israel have developed complementary sets of adaptations and survival strategies as ecological equivalents with physiological morphological and anatomical resemblances in the various stages of their life cycles After 40 years of research in hot deserts Yitzchak Gutterman provides a comprehensive treatise of such adaptations and strategies In doing so he covers the following topics post maturation primary seed dormancy which prevents germination of maturing seeds before the summer seed dispersal mechanisms with escape or protection strategies cautious or opportunistic germination strategies seedling drought tolerance The day length is an important factor in regulating flowering as well as the phenotypic plasticity of seed

germination which is also affected by maternal factors      Insect Physiological Ecology Steven L. Chown, Sue Nicolson, 2004-07-15 This book provides a modern synthetic overview of interactions between insects and their environments from a physiological perspective that integrates information across a range of approaches and scales It shows that evolved physiological responses at the individual level are translated into coherent physiological and ecological patterns at larger even global scales This is done by examining in detail the ways in which insects obtain resources from the environment process these resources in various ways and turn the results into energy which allows them to regulate their internal environment as well as cope with environmental extremes of temperature and water availability The book demonstrates that physiological responses are not only characterized by substantial temporal variation but also shows coherent variation across several spatial scales At the largest global scale there appears to be substantial variation associated with the hemisphere in which insects are found Such variation has profound implications for patterns of biodiversity as well as responses to climate change and these implications are explicitly discussed The book provides a novel integration of the understanding gained from broad scale field studies of many species and the more narrowly focused laboratory investigations of model organisms In so doing it reflects the growing realization that an integration of mechanistic and large scale comparative physiology can result in unexpected insights into the diversity of insects      Arid and Semi-Arid Zones of Mexico: A Comprehensive Exploration of Biodiversity, Ecology, and Conservation Sofía Solórzano Lujano, José Guillermo Avila Acevedo, Israel Valencia Quiroz, 2025-06-30 Arid and Semi Arid Zones of Mexico A Comprehensive Exploration of Biodiversity Ecology and Conservation is an in depth multidisciplinary examination of one of Mexico s most ecologically distinctive and biologically rich landscapes Comprising 14 chapters authored by subject matter experts this reference work investigates the climatic physical and biological characteristics of Mexico s principal arid and semi arid regions The volume presents detailed assessments of emblematic plant and animal species while also exploring the ecological roles of nursery processes and the consequences of human activity on fragile desert ecosystems Conservation priorities are addressed through evaluations of protected natural areas and the safeguarding of native germplasm resources Additionally the contributors document the medicinal and biologically active products derived from arid zone flora highlighting their ecological and cultural significance Each chapter integrates case studies and findings from Mexico s key arid regions the Baja California Peninsula Chihuahuan Desert Sonoran Desert and Tehuac n Cuicatl n Valley Key Features Comprehensive ecological biological and conservation analysis of Mexico s arid and semi arid regions In depth focus on emblematic fauna and flora Examination of ecological processes human impacts and conservation strategies Assessment of protected areas and germplasm conservation efforts using cacti as umbrella taxa Documentation of natural products with medicinal and biological applications Integrative analyses across four major arid regions highlighting ecological patterns and biodiversity trends      Arthropods of Mediterranean-Type Ecosystems George P. Stamou, 2012-12-06 G P Stamou describes the adaptive strategies that allow

arthropods to cope with the severity of Mediterranean environments After an introduction to the structure and function of Mediterranean type ecosystems ecophysiological adaptations to water stress and varying temperature are considered Further activity patterns and life cycle tactics are discussed in relation to the peculiarity of Mediterranean environments Phenological patterns and population dynamics as well as community structures are also presented The volume ends with a synthesis of life history tactics      *Physiological Ecology of North American Desert Plants* Stanley D. Smith, Russell Monson, Jay E. Anderson, 2012-12-06 This book begins with the physical and biological characterization of the four North American deserts and a description of the primary adaptations of plants to environmental stress In the following chapters the authors present case studies of key species representing dominant growth forms of the North American deserts and provide an up to date and comprehensive review of the major patterns of adaptations in desert plants One chapter is devoted to several important exotic plants that have invaded North American deserts The book ends with a synthesis of the adaptations and resource requirements of North American desert plants Further it addresses how desert plants may respond to global climate change



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