

Adaptations of Desert Organisms



Ecophysiology of Amphibians Inhabiting Xeric Environments



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**José Maria Cardoso da Silva, Inara R.
Leal, Marcelo Tabarelli**



Ecophysiology Of Amphibians Inhabiting Xeric Environments:

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

Ecophysiology of Small Desert Mammals Allan A. Degen, 2012-12-06 Since small mammals have a large surface to mass ratio one would expect them to quickly dehydrate and perish at high environmental temperatures Nonetheless a large number of small mammal species inhabit deserts This fascinating phenomenon is investigated by Prof A Allan Degen in his book The majority of small desert mammals are rodents but shrews of several grams and small foxes of 1 kg are also present Their survival is due mainly to behavioural adaptations and habitat selection however physiological adaptations also contribute to the success Interestingly many small mammals that live in different deserts of the world show similarities in their adaptive traits although they have different taxonomic affinities

Vertebrate Ecophysiology Don Bradshaw, 2003-04-24 Ecophysiology attempts to clarify the role and importance of physiological processes such as digestion and respiration in the ecological relations of species in their natural habitats The basic principles and methods that are central to any ecophysiological study are outlined and discussed including animal capture blood collection and the measurement of plasma components and hormone levels Attention is paid to animal welfare and ethical considerations and the question of stress and how to identify its presence in animals in their natural environment is approached through a series of case studies Examples are given from a wide range of vertebrates living in deserts cold climates and oceans and recent findings on the physiological adaptations of Antarctic birds and mammals are a highlight of the book This textbook will provide an introduction to the study of ecophysiology for advanced undergraduates and postgraduate students as well as researchers in ecology biodiversity and conservation

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 *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 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 **Plants in the Deserts of the Middle East** Kamal H. Batanouny, 2013-11-11 Usually authors write introductions for their books although they know that not many readers will read it Despite this authors insist on writing an introduction and no publisher will publish a book without one I would like to inform my dear readers that I have spent almost all of the first quarter of my life in a village in the Nile Delta 65 km north of Cairo The everyday scenery there was the beautiful green landscape dissected with canals full of running water All of these were bordered with the huge sycamore mulberry and acacia trees The desert was something unknown to me at that time except for the very basic information given in geography books which explained that the desert is a place without water or cultivation Some of my ideas about the desert came to me from the stories in the history of Islam and the desert lands where Islam originated My real attraction to the desert developed in the last year of my under graduate studies This was during the field courses in Ecology Prof A M *Spatial Ecology of Desert Rodent Communities* Georgy I. Shenbrot, Boris R. Krasnov, Konstantin A. Rogovin, 2012-12-06 Rodents are conspicuous and important components of the desert biome Many general concepts in modern community and behavioral ecology use them as a main model This volume compiles and generalizes data on the spatial structure of desert rodent communities taking into account both global biogeographic and local ecological patterns It is based on studies of rodents in different deserts of the Northern Hemisphere Karakum Kyzylkum Bet Pak Dala Gobi Thar Chihuahua Negev and North Caspian deserts as well as on a thorough analysis of the literature *Nomadic Desert Birds* W.

Richard J. Dean, 2013-06-29 My interest in the behaviour and movements of birds of arid and semi arid ecosystems began when my wife Sue Milton and I were Roy Siegfried Director at that time of the Percy FitzPatrick Institute of African Ornithology to set up a project to investigate granivory in the South African Karoo Sue and I spent some time finding a suitable study site setting up accommodations and an automatic weather station at Tierberg in the southern Karoo near the village of Prince Albert and planning projects Among our first projects was a transect where we noted plant phenology measured seed densities on the soil surface counted birds observed ant activity measured soil surface temperatures and collected whatever climate data we could at 40 sites along a 200 km oval route Along the way we became interested in the marked presence and absence of birds at certain sites abundant birds one day and very few birds at the same site a month later Subsequent counts along fixed transects through shrublands confirmed that a number of bird species were highly nomadic over short and long distances locally and regionally leading to speculation on how widespread these movements were in the arid ecosystems of the world

Dispersal Biology of Desert Plants Karen van Rheede van Oudtshoorn, Margaretha W. van Rooyen, 2013-03-09 Dispersal processes have important effects on plant distribution and abundance Although adaptations to long range dispersal telechory are by no means rare in desert plants many desert plant species do not possess any features to promote dispersal atelechory while others have structures that hamper dispersal antitelechory The high frequency with which atelechorous and antitelechorous mechanisms are present in plants inhabiting arid areas indicates the importance of these adaptations Among the benefits derived from these adaptations are the spreading of germination over time the provision of suitable conditions for germination and subsequent seedling establishment and the maintenance of a reservoir of available seeds seed bank This book describes the ways and means anatomical morphological and ecological by which dispersal in desert plants has evolved to ensure the survival of these species in their harsh and unpredictable environment

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

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 Cl deus 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

The Diversity of Amphibians and Reptiles John L.

Cloudsley-Thompson,2012-12-06 An introduction to the evolution and adaptation of amphibians and reptiles bridging the gulf between the plethora of popular books and the more advanced texts directed towards the needs of specialist research workers thus making it accessible to advanced students worldwide Basic principles are explained in non technical terms and the adaptive responses to natural selection which have engendered the diversity of forms that exist in the fossil record and are found in the world today are covered The book also includes the extinct forms such as dinosaurs ichthyosaurs and plesiosaurs In the concluding chapter relationships with mankind and the preservation of diversity are discussed

Homeostasis in Desert Reptiles Sidney Donald Bradshaw,2012-12-06 Deserts whether hot or cold are considered to be one of the most difficult environments for living systems lacking the essential free water which accounts for approximately 60-70% of their body mass and more than 98% of their constituent atoms Macfarlane 1978 Amongst vertebrates reptiles are usually thought of as the animals most adapted or suited to such environments because of their diurnal habit based on a need for external heat and their ability to survive far from obvious sources of water This impression is reinforced when one examines the composition of vertebrate faunae characteristic of deserts and arid zones reptiles predominate and they are often the only vertebrates to be found in hyper arid areas such as some parts of the Sahara Monod 1973 I recently had occasion to examine this assumption carefully however and was led inexorably to the conclusion that reptiles represent a particularly successful desert group not because of their evolution of superior adaptations but because of their possession of a basic suite of behavioural and physiological characteristics that suit them uniquely to this very resource limited environment Bradshaw 1986a These fundamental reptilian characteristics are 1 their low rates of metabolism compared with birds and mammals which result in extremely low rates of resource utilisation and lead to considerable economy in the handling of water 2

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

Avian Desert Predators William E. Cook,2012-12-06 Birds are not particularly well suited to desert life Unlike

mammals they are generally active during the day and do not usually go underground to escape the intense desert heat Among the few types of birds that have successfully invaded the desert ecosystem are the predators Many species of hawks owls roadrunners vultures and shrikes survive very well in deserts What attributes make this group especially suited to desert life How have they augmented their abilities to cope with the harsh constraints imposed by the desert habitat These are among the issues explored in this new volume which brings together much of the current research on adaptations of avian desert predators

Caatinga José Maria Cardoso da Silva, Inara R. Leal, Marcelo Tabarelli, 2018-01-09 This book provides in depth information on Caatinga's geographical boundaries and ecological systems including plants insects fishes amphibians reptiles birds and mammals It also discusses the major threats to the region's socio ecological systems and includes chapters on climate change and fast and large scale land use changes as well as slow and small scale changes also known as chronic human disturbances Subsequent chapters address sustainable agriculture conservation systems and sustainable development Lastly the book proposes 10 major actions that could enable the transformation of Caatinga into a place where people and nature can thrive together I consider this book an excellent example of how scientists worldwide can mobilize their efforts to propose sound solutions for one of the biggest challenges of modern times i e how to protect the world's natural ecosystems while improving human well being I am sure this book will inspire more research and conservation action in the region and perhaps encourage other groups of scientists to produce similar syntheses about their regions Russell Mittermeier Ph D Executive Vice Chair Conservation International

Reproductive Biology and Phylogeny of Urodela Barrie G. M. Jamieson, David M. Sever, 2003-01-05 This volume contains original contributions from an international group of authors with the highest reputations in their respective areas of phylogenetic and reproductive studies on salamanders and newts A full panoply of topics is covered from morphology of gametes and reproductive systems to considerations of behavior and life history all plac

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 **Systematics and Conservation of Neotropical Amphibians and Reptiles** Alessandro Catenazzi, Rudolf von May, 2021-08-31 This book includes all 14 articles contributed to the Special Issue Systematics and Conservation of Neotropical Amphibians and Reptiles in the journal Diversity originally published in 2019 and 2020

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