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LEONIDAS POLLARD

Ecology of Desert Systems Indus Publishing

A global analysis of landforms of deserts and the processes that mould them, for advanced students and researchers.

Deserts of the World Univ of California Press

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.

Environmental management of cold desert ecosystem University of Oklahoma Press

Taking a global perspective, this book provides a concise overviewof drylands, including their physical, biological, temporal, andhuman components.

Examines the physical systems occurring in desert environments,including climate, hydrology, past and present lakes, weathering,hillslopes, geomorphic surfaces, water as a geomorphic agent, andaeolian processes Offers an accessible introduction to the physical, biological,temporal, and human components of drylands Investigates the nature, environmental requirements, andessential geomorphic roles of plants and animals in this stressfulbiological environment Highlights the impact of human population growth on climate,desertification, water resources, and dust storm activity Includes an examination of surface/atmosphere interactions andthe impact of ENSO events.

Geomorphology of Desert Environments Springer

About one-third of the Earth's land surface experiences a desert climate, and this area supports approximately 15% of the planet's population. This percentage continues to grow, and with this growth comes the need to acquire and apply an understanding of desert geomorphology. Such an understanding is vital in managing scarce and fragile resources and in mitigating natural hazards. This authoritative reference book is comprehensive in its coverage of the geomorphology of desert environments, and is arranged thematically. It begins with an overview of global deserts, proceeds through treatments of weathering, hillslopes, rivers, piedmonts, lake basins, and aeolian surfaces, and concludes with a

discussion of the role of climatic change. Written by a team of international authors, all of whom are active in the field, the chapters cover the spectrum of desert geomorphology.

Arabian Deserts Createspace Independent Publishing Platform

Approximately one-third of the Earth's land surface is desert, arid land with meager rainfall that supports only sparse vegetation and a limited population of people and animals. Deserts-stark, sometimes mysterious worlds-have been portrayed as fascinating environments of adventure and exploration from narratives such as that of Lawrence of Arabia to movies such as "Dune." These arid regions are called deserts because they are dry. They may be hot, they may be cold. They may be regions of sand or vast areas of rocks and gravel peppered with occasional plants. But deserts are always dry.

Arid and Semi-Arid Geomorphology John Wiley & Sons

Complete with vivid, dramatic photographs, this eBook presents an oasis of information on the world's starkest deserts. Journey from Death Valley, the lowest point in North America, to the Libyan desert, the hottest on Earth, where temperatures can reach 136°F, to Antarctica’s vast polar deserts, which have not had ice cover for thousands of years. From trade wind and rainshadow deserts to interior and coastal deserts, Deserts, Revised Edition spotlights 10 superlative examples and reveals why these astonishing landforms are never static

but always changing.

Desert Aeolian Processes Cambridge University Press

A richly illustrated atlas of the world's deserts and drylands, their ecosystems, and their environments Deserts and drylands account for more than 40 percent of land on our planet. Characterized by a lack of water and extreme temperatures, they are the result of atmospheric stability, large landmass characteristics, rain shadows, and cold ocean currents. They appear harsh and hostile, but deserts and drylands are also exceptionally beautiful environments. Desert ecosystems often teem with diverse forms of life that exhibit astonishing ingenuity in the face of such forbidding conditions. The World Atlas of Deserts and Drylands takes readers on a guided tour of some of the most awe-inspiring desert environments on Earth, explaining their environmental and ecological dynamics and describing the techniques used to categorize and map them. From the ever-expanding Gobi of Mongolia and China to the ancient Namib of coastal Africa, this is the ultimate reference book for deserts. Features a wealth of color photos, maps, and infographics Describes the resilient and complex biodiversity of the world's desert and dryland terrains Covers subtropical deserts, continental deserts, rain shadow deserts, and ocean margin deserts Addresses the challenges posed by global warming and human activity, and discusses solutions and opportunities Written by a team of leading experts

Arid and Semi-Arid Geomorphology John Wiley & Sons
A revised introduction to aeolian geomorphology written by noted experts in the field The new, revised and updated edition of Aeolian Geomorphology offers a concise and highly accessible introduction to the subject. The text covers the topics of deserts and coastlines, as well as periglacial and planetary landforms. The authors review the range of aeolian characteristics that include soil erosion and its consequences, continental scale dust storms, sand dunes and loess. Aeolian Geomorphology explores the importance of aeolian processes in the past, and the application of knowledge about aeolian geomorphology in environmental management. The new edition includes contributions from eighteen experts from four continents. All the chapters demonstrate huge advances in observation, measurement and mathematical modelling. For example, the chapter on sand seas shows the impact of greatly enhanced and accessible remote sensing and the chapter on active dunes clearly demonstrates the impact of improvements in field techniques. Other examples reveal the power of greatly improved laboratory techniques. This important text: Offers a comprehensive review of aeolian geomorphology Contains contributions from an international panel of eighteen experts in the field Includes the results of the most recent research on the topic Filled with illustrative examples that

demonstrate the advances in laboratory approaches Written for students and professionals in the field, Aeolian Geomorphology provides a comprehensive introduction to the topic in twelve new chapters with contributions from noted experts in the field.

Biogenic Carbon Accumulation Across a Cold Desert Dune Chronosequence The Rosen Publishing Group, Inc

Over the last twenty years there has been a major expansion of knowledge in the field of landforms and landforming processes of deserts. This advanced-level book provides a benchmark for the current state of science, and is written by an international team of authors who are acknowledged experts in their fields.

Deserts of the World Springer Science & Business Media

A survey of the nature and history of the landscapes of the world's great warm deserts, that illustrates how their distinctive features have developed in response to major climatic and tectonic changes over millions of years. The treatment is a regional one, and each of the world's major warm deserts has its own chapter. Written by a leading expert in the field.

Cold Deserts of India Springer Science & Business Media

Based on four decades of research by Professor Andrew Goudie, this volume provides a state-of-the-art synthesis of our understanding of desert geomorphology. It presents a truly international perspective, with examples from all over the world. Extensively

referenced and illustrated, it covers such topics as the importance of past climatic changes, the variability of different desert environments, rock breakdown, wind erosion and dust storm generation, sand dunes, fluvial and slope forms and processes, the role of the applied geomorphologist in desert development and conservation, and the Earth as an analogue for other planetary bodies. This book is destined to become the classic volume on arid and semi-arid geomorphology for advanced students and researchers in physical geography, geomorphology, Earth science, sedimentology, environmental science and archaeology.

The World Atlas of Deserts and Drylands

Cambridge University Press

This volume provides an authoritative and comprehensive state-of-the-art review of hot desert terrains in all parts of the world, their geomaterials and influence on civil engineering site investigation, design and construction. It primarily covers conditions and materials in modern hot deserts, but there is also coverage of unmodified ancient desert soils that exhibit engineering behaviour similar to modern desert materials. Thorough and up-to-date guidance on modern field evaluation and ground investigation techniques in hot arid areas is provided, including reference to a new approach to the desert model and detailed specialised assessments of the latest methods for materials characterisation and testing. The volume is based on world-wide experience in hot desert terrain and draws upon the

knowledge and expertise of the members of a Geological Society Engineering Group Working Party comprising practising geologists, geomorphologists and civil engineers with a wealth of varied, but complementary experience of working in hot deserts. It is an essential reference book for professionals, as well as a valuable textbook for students. It is written in a style that is accessible to the non-specialist. A comprehensive glossary is also included. The Geological Society of London. Founded in 1807, the Geological Society of London is the oldest geological society in the world, and one of the largest publishers in the Earth sciences. The Society publishes a wide range of high-quality peer-reviewed titles for academics and professionals working in the geosciences, and enjoys an enviable international reputation for the quality of its work.

Desert Dust Springer Science & Business Media

This title is part of UC Press's Voices Revived program, which commemorates University of California Press’s mission to seek out and cultivate the brightest minds and give them voice, reach, and impact. Drawing on a backlist dating to 1893, Voices Revived makes high-quality, peer-reviewed scholarship accessible once again using print-on-demand technology. This title was originally published in 1973.

Great Warm Deserts of the World Cambridge University Press

Abstract: Although the McMurdo Dry Valleys (MDV) of Antarctica lie within an

archetypal cold-desert climate, research presented here shows that the MDV are best divided into a series of microclimatic zones, with each zone fostering a unique suite of landforms and geomorphic processes that are produced by, and in balance with, local summertime environmental conditions. To quantify better the relationship between microclimates and landforms, we conducted a series of field-based and numerical-modeling studies designed (1) to elucidate landform response to potential climate warming, (2) to determine past climate variation by reconstructing former ice-volume changes of outlet glaciers draining the East Antarctic Ice Sheet, and (3) to describe the range of processes that both produce and modify near-surface ice in each microclimatic zone. Results from a one dimensional heat diffusion equation coupled with a Mohr-Coulomb-based safety-factor model show that ice-cemented slope deposits in the upland microclimate zone would remain frozen, without failure from planar sliding, even if local summertime atmospheric temperatures were to warm by as much as 4 to 9°C. Given documented evidence for enduring geomorphic stability, the model results suggest that the maximum potential summertime warming in this zone since late Miocene time was 4 to 9°C. At lower elevations of the MDV, within the inland-mixed microclimatic zone, buried ice today experiences seasonal melting and modification via the formation of secondary ice; stream dissection, fan deposition, and active-

layer cryoturbation also play major roles in modifying buried ice and overlying deposits. Finally, geomorphic analyses of nine moraines in Kennar Valley show that the East Antarctic Ice Sheet inland from the MDV has remained stable and robust (-200 m of ice-elevation change) for at least the last -3.1 million years; chronologic control for the moraine sequence comes from cosmogenic 3 He analyses of surface boulders. Taken together, the results suggest that the modern microclimatic zonation of the MDV has persisted for at least the last 3.1 million years, making it one of the most climatically stable regions on Earth.

The Geological Story of the World's Deserts Geological Society of London

A 2004 monograph describing wind-generated polar landforms, both modern-day and those preserved in the geological record.

Desert Geomorphology Cambridge University Press

This is the first comprehensive survey of all the deserts of Arabia, based largely on the author’s 50 years of experience there. The text deals with every kind of desert in the region, from vast sand seas to clay pans and stony plains to volcanic flows. Along with dune types unique to the region the author outlines climatic changes, current ecology and human influence on desertification.

Environmental Management of a Cold Desert Ecosystem Geological Society of America

A synthesis of the environmental and climatic history of every major desert and desert margin, for researchers and

advanced students.

Geomorphology of Desert Environments John Wiley & Sons

Over the past few decades there has been a major expansion of knowledge in the field of landforms and landforming processes of deserts. This is an advanced-level textbook which opens with an overview that provides geomorphic comparison of the world's deserts. The following chapters present reviews and evaluations of current research grouped around the main geomorphic processes and environments, namely weathering, hillslopes, rivers, piedmonts, lake basins and aeolian features. In the final part, a series of chapters examines the impact of climatic change on the geomorphology of desert environments.

Desert Geomorphology VCTA

This two-volume set is intended for those seriously interested in planning, managing, and executing research or development efforts in the arid parts of the world. This publication brings together critical appraisals of the research and state of knowdelge on the world's deserts.

Deserts Infobase Holdings, Inc

Describes the desert biome and its diversity.

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