

TROPICAL ALPINE ENVIRONMENTS

Plant form and function

Edited by
PHILIP W. RUNDEL
ALAN P. SMITH
F. C. MEINZER



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Tropical Alpine Environments Philip W. Rundel, Alan P. Smith, F. C. Meinzer, 1994-09 Plants growing in tropical alpine environments at altitudes above the closed canopy forest and below the limit of plant life have evolved distinct forms to cope with a hostile environment characterized by cold drought and fire Unlike temperate alpine environments where there are distinct seasons of favourable and unfavourable conditions for growth tropical alpine habitats present summer conditions every day and winter conditions every night Using examples from all over the tropics this fascinating account reviews for the first time the unique form and functional relationships of tropical alpine plants examining both their physiological ecology and population biology It will appeal to anyone interested in tropical vegetation and plant physiological adaptations to hostile environment as well as to researchers in biogeography and ecology

Ecosystem and Species Adaptations in the Andean-Amazonian Region Ana Sabogal, 2023-11-30 This book focuses on ecosystems and species adaptations in the unique Peruvian Andean Amazonian region The presence of the Andes as the backbone is the cause of the huge ecosystem diversity and biodiversity of species that characterize the Andean Amazonian ecosystems The complex orography of Peru as results of the Andes presence in its tropical setting favors the occurrence of local climatic features that provide diverse environmental conditions for multiple unique plant and animal species many of them endemic to the Andes The book will introduce the reader to the climatic history and geography of the Peruvian Andes and the Peruvian Natural Areas Protection system focusing on the Manu and Northwest biosphere reserves given their relevant ecological importance as well as the relationship between them and the local population Important global topics like urbanization deglaciation and global warming will be analyzed and discussed due to their impact in the Andes Amazon ecosystems Finally the traditional land use systems agrobiodiversity and agrodiversity in Peru are present and linked with the climate change adaptations

Plant Ecological Anatomy Marius-Nicuseor Grigore, 2025-09-26 This book Plant Ecological Anatomy offers a groundbreaking exploration of plant anatomy through the lens of ecological adaptation addressing the pressing challenges posed by climate change Moving beyond traditional descriptive anatomy this volume provides a comprehensive understanding of how plants structurally adapt to diverse ecological factors thus describing ecological groups of plants as hydrophytes helophytes xerophytes as a large group and with their sub groups as well halophytes alpine plants tropical alpine plants steppe plants desert plants epiphytes and mangroves under environmental stressors like aridification and salinization and waterlogging Key concepts include the primary and secondary structures of roots and stems structural anomalies and the architectural patterns of leaves The book delves into the ecological anatomy of vegetative organs highlighting the unique adaptations of various ecological groups of plants For instance it examines among many others the development of aerenchyma in hydrophytes the specialized root structures in mangroves and the water storage tissues in xerophytes With over 500 illustrations including 60 color figures readers gain a vivid understanding of these complex structures Plant Ecological

Anatomy is an essential resource for researchers scholars and students in plant sciences ecology and environmental studies Its extensive bibliographic references connect readers to both classic and contemporary literature making it a vital addition to any academic library This book is a must read for anyone seeking to understand the intricate relationship between plant structure and ecological adaptation Mountain Timberlines Friedrich-Karl Holtmeier,2009-03-15 For more than 40 years I have been engaged in timberline research Thus one could suppose that writing this book should not have been too difficult It was harder however than expected and in the end I felt that more questions had arisen than could be answered within its pages Perhaps it would have been easier to write the book 30 years ago and then leave the subject to mature Lastly it was the late Prof Heinz Ellenberg who had convinced me to portray a much needed and complete picture of what we know of the timberline with special respect to its great physiognomic structural and ecological variety The first version of this book was published in the German language Holtmeier 2000 Nevertheless I was very delighted when Prof Martin Beniston encouraged me to prepare an English edition for the series Advances in Global Change Research which guaranteed a wider circulation Timberline is a worldwide and very heterogeneous phenomenon which can only be presented by way of examples My own field experience is necessarily limited to certain timberline areas such as the Alps northern Scandinavia northern Finland and many high mountain ranges in the western United States and Canada However my own observations and the results of my and my previous collaborators research were essential for developing the concept of the book and became integrated into the picture of timberline that is presented in the following chapters Bibliography on Cold Regions Science and Technology ,1996 *Costa Rican Ecosystems* Maarten Kappelle,2016-04-15 In 1502 Christopher Columbus named Costa Rica and while gold and silver never materialized to justify the moniker of rich coast in purely economic terms scientists and ecotourists alike have long appreciated its incredible wealth Wealth in Costa Rica is best measured by its biodiversity home to a dizzying number of plants and animals many endemic it is a country that has long encouraged and welcomed researchers from the world over and is exemplary in the creation and commitment to indigenous conservation and management programs Costa Rica is considered to have the best preserved natural resources in Latin America Approximately nine percent about 1 000 000 acres of Costa Rica has been protected in 15 national parks and a comparable amount of land is protected as wildlife refuges forest reserves or Indian reservations This long awaited synthesis of Costa Rican ecosystems is an authoritative presentation of the paleoecology biogeography structure conservation and sustainable use of Costa Rica s ecosystems It systematically covers the entire range of Costa Rica s natural and managed terrestrial freshwater and marine ecosystems including its island systems Cocos Islands the Atlantic and Pacific oceans and shores coasts coral reefs mangrove forests its lowlands dry season and wet forests its highlands the northern volcanoes and southern Talamanca s and its estuaries rivers lakes swamps and bogs The volume s integrated comprehensive format will be welcomed by tropical and temperate biologists alike by biogeographers plant and animal ecologists marine biologists conservation biologists foresters policy makers and all

scientists natural history specialists and all with an interest in Costa Rica s ecosystems **Tropical Ecology** ,1994

Encyclopedia of the World's Biomes ,2020-06-26 Encyclopedia of the World s Biomes is a unique five volume reference that provides a global synthesis of biomes including the latest science All of the book s chapters follow a common thematic order that spans biodiversity importance principal anthropogenic stressors and trends changing climatic conditions and conservation strategies for maintaining biomes in an increasingly human dominated world This work is a one stop shop that gives users access to up to date informative articles that go deeper in content than any currently available publication Offers students and researchers a one stop shop for information currently only available in scattered or non technical sources Authored and edited by top scientists in the field Concisely written to guide the reader though the topic Includes meaningful illustrations and suggests further reading for those needing more specific information **Encyclopedia of Biodiversity**

,2013-02-05 The 7 volume Encyclopedia of Biodiversity Second Edition maintains the reputation of the highly regarded original presenting the most current information available in this globally crucial area of research and study It brings together the dimensions of biodiversity and examines both the services it provides and the measures to protect it Major themes of the work include the evolution of biodiversity systems for classifying and defining biodiversity ecological patterns and theories of biodiversity and an assessment of contemporary patterns and trends in biodiversity The science of biodiversity has become the science of our future It is an interdisciplinary field spanning areas of both physical and life sciences Our awareness of the loss of biodiversity has brought a long overdue appreciation of the magnitude of this loss and a determination to develop the tools to protect our future Second edition includes over 100 new articles and 226 updated articles covering this multidisciplinary field from evolution to habits to economics in 7 volumes The editors of this edition are all well respected instantly recognizable academics operating at the top of their respective fields in biodiversity research readers can be assured that they are reading material that has been meticulously checked and reviewed by experts Approximately 1 800 figures and 350 tables complement the text and more than 3 000 glossary entries explain key terms

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