The Ecology Of Snow And Ice Environments

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Snow Ecology Oxford University Press Freshwater Algae of North America: Ecology and Classification, Second Edition is an authoritative and practical treatise on the classification, biodiversity, and ecology of all known genera of freshwater algae from North America. The book provides essential taxonomic and ecological information about one of the most diverse and ubiquitous groups of organisms on earth. This single volume brings together experts on all the groups of algae that occur in fresh waters (also soils, snow, and extreme inland environments). In the decade since the first edition, there has been an explosion of new information on the classification, ecology, and biogeography of many groups of algae, with the use of molecular techniques and renewed interest in biological diversity. Accordingly, this new edition covers updated classification information of most algal groups and the reassignment of many genera and species, as well as new research on harmful algal blooms. Extensive and complete Describes every genus of freshwater algae known from North America, with an analytical dichotomous key, descriptions of diagnostic features, and at least one image of every genus. Full-color images throughout provide superb visual examples of freshwater algae Updated Environmental Issues and Classifications, including new information on harmful algal blooms (HAB) Fully revised introductory chapters, including new topics on biodiversity, and taste and odor problems Updated to reflect the rapid advances in algal classification and taxonomy due to the widespread use of DNA technologies

Snow Cover as an Integral Factor of the Environment and Its Importance in the Ecology Af Mammals and Birds The Ecology of Snow and Ice Environments The first edition of Data Analysis in Vegetation Ecology provided an accessible and thorough resource for evaluating plant ecology data, based on the author ' s extensive experience of research and analysis in this field. Now, the Second Edition expands on this by not only describing how to analyse data, but also enabling readers to follow the step-by-step case studies themselves using the freely available statistical package R. The addition of R in this new edition has allowed coverage of additional methods for classification and ordination, and also logistic regression, GLMs, GAMs, regression trees as well as multinomial regression to simulate vegetation types. A package of statistical functions, specifically written for the book, covers topics not found elsewhere, such as analysis and plot routines for handling synoptic tables. All data sets presented in the book are now also part of the R package ' dave ', which is freely available online at the R Archive webpage. The book and data analysis tools combined provide a complete and comprehensive guide to carrying out data analysis students, researchers and practitioners in vegetation science and plant ecology. Summary: A completely revised and updated edition of this popular introduction to data analysis in vegetation ecology Now includes practical examples using the freely available statistical package ' R ' Written by a world renowned expert in the field Complex concepts and operations are explained using clear illustrations and case studies relating to real world phenomena Highlights both the potential and limitations of the methods used, and the final interpretations Gives suggestions on the use of the most widely used statistical software in vegetation ecology and how to start analysing data Praise for the first edition: "This book will be a valuable addition to the shelves of early postgraduate candidates and postdoctoral researchers. Through the excellent background material and use of real world examples, Wildi has taken the fear out of trying to understand these much needed data analysis techniques in vegetation ecology." —Austral Ecology

The Ecology of Recently-deglaciated Terrain Springer Science & Business Media

Foraging theory, the confluence of the ecology and evolution, strives to understand ecological patterns and processes. I use concepts of foraging theory in combination with mud-and-boots field biology to report the distribution and abundance of the endangered snow leopard and the Himalayan tahr on Mt. Everest of Nepal. I use the vigilance behavior of tahr to infer the status of their predator, the snow leopard, and confirm that snow leopards have returned to Mt. Everest following their disappearance some 40 years ago. I model how animals should select their habitats under predation-risk and partition time between competing fitness enhancing activities. In the former, I examine the consequence of animal's habitat selection under the threat of predation as an additional factor. In the later, I develop a game theory model, and suggest that group size effect on vigilance behavior is contingent upon the strength of interacting effects of many eyes, dilution and predator attraction effects. In examining ecological theories, I track how top predators may structure biological communities. Furthermore, I examine a few major ecological paradigms in light of biodiversity conservation.

Snow Leopards Elsevier

Seasonal Snowpacks examines the processes which control the chemistry of seasonal snowcover and provides detailed information on the biogeographical distribution of snow (e.g. urban, alpine snowpacks), snow composition (e.g.

micropollutants, stable isotopes) or the physical and biological processes which influence the chemical changes in snow (e.g. wind, microbiological activity). The fluxes of chemicals at the snow-atmosphere and snow-soil interfaces are examined, as are processes which modify composition within the snowcover. It is the first book in which the reader will find a comprehensive overview of the theoretical concepts, latest measurement techniques, process-oriented research methods, and models of studies in snow chemistry. The linkages between snow chemistry, atmospheric chemistry and hydrology will make this book of use to both research workers and students in the physical and biological sciences and to natural resource management personnel.

The Significance of Snow Cover in the Ecology and Geographical Distribution of Mammals and Birds

Academic Press

The majority of extremophiles in ice and snow are microorganisms.

Winter Ecology and History

Cambridge University Press

Reference for interpreters about winter in Yellowstone. With articles, essays, or excerpts on the following topics: Snow and life ; adaptations to cold ; arboreal antifreeze : how trees survive the winter ; life in a hot-water basin ; impacts of winter recreationists on wildlife in a portion of Yellowstone National Park ; winter weather as a population-regulating influence on free-ranging bison in Yellowstone National Park ; tracks in the snow ; classification of snow ; snow ecology ; history of skiing ; Of skis, scouts, and soldier ; the Schwatka-Haynes winter expedition of 1887 ; historical development of winter visitor use at Yellowstone National Park ; summary record of snowmobile/snowcoach use, Yellowstone National Park, 1966-1983.

The Ecology of Large Mammals in Central Yellowstone Springer Science & Business Media

The majority of extremophiles in ice and snow are microorganisms.

A review of the status and ecology of the snow leopard (Panthera uncia) Springer Nature

The Sierra Nevada, California ' s iconic mountain range, harbors thousands of remote high-elevations lakes from which water flows to sustain agriculture and cities. As climate and air quality in the region change, so do the watershed processes upon which these lakes depend. In order to understand the future of California ' s ecology and natural resources, we need an integrated account of the environmental processes that underlie these aquatic systems. Synthesizing over three decades of research on the lakes and watersheds of the Sierra Nevada, this book develops an integrated account of the hydrological and biogeochemical systems that sustain them. With a focus on Emerald Lake in Sequoia National Park, the book marshals long-term limnological and ecological data to provide a detailed and synthetic account, while also highlighting the vulnerability of Sierra lakes to changes in climate and atmospheric deposition. In so doing, it lays the scientific foundations for predicting and understanding how the lakes and watersheds will respond.

Seasonal Snowpacks Academic Press

The knowledge on the ecology of ungulates (orders Perissodactyla and Artiodactyla) inhabiting eastern Europe and northern and central Asia is of special importance for those interested in zoology, ecology, nature conservation, hunting and management. There are 26 species of ungulates 2 oE-169 ° W within the 22. 4 million km area, between 35-82 ° N and 20 and they occupy several vegetation zones from arctic deserts to the subtropics. In our opinion, the advancement of science can be retarded and general conclusions will be difficult to make, if the knowledge of the organisms inhabiting one sixth of the world'sland surface, covered by this vast region, is not included. The language barrier, as well as the lack of international accessibility of local publications, makes it difficult to make use of the great volume of scientific information gathered within the territory of the former USSR. The only complete ecological review of ungulates of the Soviet Union, Mammals of the Soviet Union, vol. 1. Ungulates, was published by V. G. Heptner, A. A. Nasimovich, and A. G. Bannikov in 1961 (in Russian, Heptner and Naumov 1961)and 1989(the English

translation,Heptner and Naumov 1989). This excellent book does not, however, contain scientific contributions published after 1959. This is unfortunate, because during the foHowing40years,intense and highly qualified research on the ecology and behavior of ungulates was performed.

Snow Cover as an Integral Factor of the Environment and Its Importance in the Ecology of Mammals and Birds, by A. N. Formozov. Translated ...by W. Prychodko and W. O. Pruitt, Jr.- Chronicle Books

Booklet for teachers planning field work, describing winter and snow ecology.

Snow Cover as an Integral Factor of the Environment and Its Importance in the Ecology of Mammals and Birds. Translated from the Original Russian Ed. by William Prychodko and William O. Pruitt UPNE

The Ecology of Snow and Ice EnvironmentsOxford University Press

The Ecology of Snow John Wiley & Sons

This book proposes a unique and comprehensive integrated synthesis of the current understanding of the science of Himalayan dynamics and its manifestations on physical systems and ecosystems at different spatial and temporal scales. In particular, this work covers relevant aspects of weather and climate, paleoclimate, snow, glacier and hydrology, ecology/forestry among other topics associated with the Himalayas. It highlights the role of the Himalayas in defining local to regional to global scale impact on weather and climate. It includes Himalayan impact on defining physical basis of changing glacier systems, permafrost melting/thawing, climate variability, and hydrological balances. As a result, this volume represents an important synthesized overview both for environmental and earth science researchers, and for policy makers and stakeholders interested in the physical and dynamical processes associated with the Himalayan massif.

Oxford University Press

Written by more than 70 scientists from around the world, this publication assesses the state of the environment and the trends in ice and snow-covered regions (the cryosphere). It looks at the significance of climate changes for ecosystems and human well-being, both now and in the years to come, given that changes in ice and snow alter the distribution of the earth's heat and water, and influence regional and global ocean circulation. This publication is an official project of the International Polar Year 2007-2008.

Ecology of Ungulates UNEP/Earthprint

Many changessome discouraging, others hopefulhave occurred in the Rocky Mountain region since the first edition of this widely acclaimed book was published. Wildlife habitat has become more fragmented, once-abundant sage grouse are now scarce, and forest fires occur more frequently. At the same time, wolves have been successfully reintroduced, and new approaches to conservation have been adopted. For this updated and expanded Second Edition, the authors provide a highly readable synthesis of research undertaken in the past two decades and address two important questions: How can ecosystems be used so that future generations benefit from them as we have? How can we anticipate and adapt to climate changes while conserving biological diversity?

Snow Ecology II : Survival of Organisms at Or Above Snow Level : an Introduction LAP Lambert Academic Publishing

Ecology program designed for use in grades 4-8.

Lakes and Watersheds in the Sierra Nevada of California Cambridge University Press

The first comprehensive review of the available information on the ecology of recently-deglaciated terrain, this volume evaluates critically the methodology employed in such studies.

Snow Ecology Guide Yale University Press

A multidisciplinary 2001 overview of life in, on and under snow for anyone interested in the cryosphere.

Reindeer Ecology in a Changing

Arctic University of California Press

Over the snow, the world is hushed and white. But under the snow exists a secret kingdom of squirrels and snow hares, bears and bullfrogs, and many other animals that live through the winter safe and warm, awake and busy, under the snow. Discover the wonder and activity that lies beneath winter s snowy landscape in this magical book.

The Ecology of Insects and Other Arthropods Found on Sierran Snow Fields

This abundantly illustrated book provides a fundamental introduction to the ecological zones of the geosphere. The revised edition includes more than 70 new figures and tables, plus detailed maps of agricultural regions and soil classification. A large number of new Anglo-American ecological studies are included, along with a discussion of the correlation between northern ecosystems and the carbon dioxide balance in the global atmosphere.

Life in the Cold

Snow Leopards: Biodiversity of the World: Conservation from Genes to Landscapes is the only comprehensive work on the biology, behavior, and conservation status of the snow leopard, a species that has long been one of the least studied, and hence poorly understood, of the large cats. Breakthroughs in technologies and methodologies to study this elusive cat have come rapidly, including non-invasive genetics, camera traps, and GPS-satellite collaring. The book begins with chapters on the genetic standing and taxonomy of the snow leopard, followed by chapters on their behavior and ecology. Additional contributions follow on the current and emerging threats to the species, which include longstanding concerns, such as poaching and conflicts with livestock, and new and emerging threats such as mining and climate change. A section on conservation solutions, backed by valuable case studies, starts with an overview of the important role mountain communities play in assuring the snow leopard ' s long-term persistence. In addition, chapters on the role of captive snow leopards for the conservation of the species, state-of-the-art techniques and technologies for studying and monitoring snow leopards, status reports from around the region, and future perspectives, such as transboundary conservation initiatives, international conventions (CITES, CMS, etc.), the role of the IUCN Cat Specialist Group and the Snow Leopard Network, and undertakings such as the Global Snow Leopard Forum facilitated by the World Bank are also included. Serves as the first and only comprehensive book on the biology, behavior, and conservation status of the snow leopard Brings together the most current scientific knowledge, documents the most pressing conservation issues, and shares success stories in alleviating the broad threats that now jeopardize the long-term survival of this species Brings current knowledge of the species, not only to researchers and conservationists, but also to decision makers, academics, and students Edited by recognized snow leopard experts, with more than 50 years of collective experience in research and conservation of the species