

Long-term Environmental Change in Arctic and Antarctic Lakes

Volume 8

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 Springer

Longterm Environmental Change In Arctic And Antarctic Lakes

Chao Zhang



Longterm Environmental Change In Arctic And Antarctic Lakes:

Long-term Environmental Change in Arctic and Antarctic Lakes Reinhard Pienitz, Marianne S.V. Douglas, John P. Smol, 2007-11-08 Concerns about the effects of global climate change have focused attention on the vulnerability of circumpolar regions Long term historical data are needed to better understand the magnitude and direction of environmental change related to both natural and anthropogenic causes as well as to assess patterns of natural variability The paucity of instrumental data requires that proxy methods be used The abundance of lakes throughout the Arctic and Antarctic makes paleolimnological approaches especially powerful tools to assist interpretations of environmental change This book provides a synthesis of the broad spectrum of techniques available for generating long term environmental records from circumpolar lakes It also provides overviews of the geographic extent of paleolimnological work completed thus far in these regions It explores the diverse ways in which paleolimnology is used to address the pressing and emerging environmental issues of high latitude regions By providing both an introduction and in depth reviews this volume is of interest to students and advanced researchers alike who are studying earth atmospheric and environmental sciences Long-term Environmental Change in Arctic and Antarctic Lakes Reinhard Pienitz, Marianne S.V. Douglas, John P. Smol, 2005-05-03 Concerns about the effects of global climate change have focused attention on the vulnerability of circumpolar regions This book offers a synthesis of the spectrum of techniques available for generating long term environmental records from circumpolar lakes **The SAGE Handbook of Environmental Change** John A Matthews, 2012-01-31 The SAGE Handbook of Environmental Change is an extensive survey of the interdisciplinary science of environmental change including recent debates on climate change and the full range of other natural and anthropogenic changes affecting the Earth ocean atmosphere system in the past present and future It examines the historic importance present status and future prospects of the field over two volumes With more than 40 chapters the books situate the defining characteristics and key paradigms within a state of the art review of the field including its changing nature and diversity of approaches evidence base key theoretical arguments resonances with other disciplines and relationships between theory research and practice Opening with a detailed contextualizing essay by the editors the work is arranged into six parts Part One Approaches to Understanding Environmental Change Part Two Evidence of Environmental Change and the Geo ecological Response Part Three Causes Mechanisms and Dynamics of Environmental Change Part Four Key Issues of Human induced Environmental Changes and Their Impacts Part Five Patterns Processes and Impacts of Environmental Change at the Regional Scale Part Six Responses of People to Environmental Change and Implications for Society Global in its coverage scientific and theoretical in its approach the books bring together an international set of respected editors and contributors to provide an exciting timely addition to the literature on climate change With the subjects interdisciplinary framework this book will appeal to academics researchers postgraduates and practitioners in a variety of disciplines including geography geology ecology environmental science archaeology anthropology

politics and sociology Encyclopedia of Quaternary Science ,2006-11-24 The quaternary sciences constitute a dynamic multidisciplinary field of research that has been growing in scientific and societal importance in recent years This branch of the Earth sciences links ancient prehistory to modern environments Quaternary terrestrial sediments contain the fossil remains of existing species of flora and fauna and their immediate predecessors Quaternary science plays an integral part in such important issues for modern society as groundwater resources and contamination sea level change geologic hazards earthquakes volcanic eruptions tsunamis and soil erosion With over 360 articles and 2 600 pages many in full color the Encyclopedia of Quaternary Science provides broad ranging up to date articles on all of the major topics in the field Written by a team of leading experts and under the guidance of an international editorial board the articles are at a level that allows undergraduate students to understand the material while providing active researchers with the latest information in the field Also available online via ScienceDirect 2006 featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy For more information pricing options and availability visit www.info.sciencedirect.com 360 individual articles written by prominent international authorities encompassing all important aspects of quaternary science Each entry provides comprehensive in depth treatment of an overview topic and presented in a functional clear and uniform layout Reference section provides guidance for further research on the topic Article text supported by full color photos drawings tables and other visual material Writing level is suited to both the expert and non expert Arctic Ecology David N.

Thomas,2021-01-26 The Arctic is often portrayed as being isolated but the reality is that the connectivity with the rest of the planet is huge be it through weather patterns global ocean circulation and large scale migration patterns to name but a few There is a huge amount of public interest in the changing Arctic especially in terms of the rapid changes taking place in ecosystems and exploitation of resources There can be no doubt that the Arctic is at the forefront of the international environmental science agenda both from a scientific aspect and also from a policy environmental management perspective This book aims to stimulate a wide audience to think about the Arctic by highlighting the remarkable breadth of what it means to study its ecology Arctic Ecology seeks to systematically introduce the diverse array of ecologies within the Arctic region As the Arctic rapidly changes understanding the fundamental ecology underpinning the Arctic is paramount to understanding the consequences of what such change will inevitably bring about Arctic Ecology is designed to provide graduate students of environmental science ecology and climate change with a source where Arctic ecology is addressed specifically with issues due to climate change clearly discussed It will also be of use to policy makers researchers and international agencies who are focusing on ecological issues and effects of global climate change in the Arctic About the Editor David N Thomas is Professor of Arctic Ecosystem Research in the Faculty of Biological and Environmental Sciences University of Helsinki Previously he spent 24 years in the School of Ocean Sciences Bangor University Wales He studies

marine systems with a particular emphasis on sea ice and land coast interactions in the Arctic and Southern Oceans as well as the Baltic Sea He also edited a related book Sea Ice 3rd Edition 2017 which is also published by Wiley Blackwell **Past**

Climate Variability through Europe and Africa Richard W. Battarbee, Françoise Gasse, Catherine E. Stickley, 2007-11-06 This book provides a major synthesis of evidence for past climate variability at the regional and continental scale across Europe and Africa It focuses on two complementary time scales the Holocene approximately the last 11 500 years and the last glacial interglacial cycle approximately the last 130 000 years An overview of the climate system of the past has never been attempted before on this scale and as such the volume represents a benchmark for future research It is written by an expert group of climate change scientists and presents an insight into past climate variability that challenges climatologists who seek to explain climate dynamics of the past and provides climate modellers with a work of reference for data model comparison The book is an advanced but very readable text essential for all students and scientists interested in global environmental change **Earth Paleoenvironments: Records Preserved in Mid- and Low-Latitude Glaciers**

L. DeWayne Cecil, Jaromy R. Green, Lonnie G. Thompson, 2006-04-11 Glaciers provide an unparalleled tool for studying global environmental change This book is the first of its kind concentrating on the paleoenvironmental record archived in mid and low latitude glaciers By concentrating mainly on the last 500 years of these records we can now see that laws enacted to protect our environment in Europe and North America are providing positive results Documenting global mid and low latitude paleoenvironmental records in glaciers this volume forms a timely and essential complement to the wealth of literature on polar and Greenland ice sheet records This text is directed towards undergraduate and graduate university audiences and forms an ideal supplement in courses dealing with climate and global environmental change glaciology and natural resources management It is also suitable in helping teach application of innovative analytical and interpretive methods and would be an excellent example of the rapidly emerging discipline of Forensic Earth Science

Paleoclimatology Raymond S. Bradley, 2013-12-28 Paleoclimatology Reconstructing Climates of the Quaternary Third Edition winner of a 2015 Textbook Excellence Award Texty from The Text and Academic Authors Association provides a thorough overview of the methods of paleoclimatic reconstruction and of the historical changes in climate during the past three million years This thoroughly updated and revised edition systematically examines each type of proxy and elucidates the major attributes and the limitations of each Paleoclimatology Third Edition provides necessary context for those interested in understanding climate changes at present and how current trends in climate compare with changes that have occurred in the past The text is richly illustrated and includes an extensive bibliography for further research Winner of a 2015 Texty Award from the Text and Academic Authors Association A comprehensive overview of the methods of paleoclimate reconstruction and the record of past changes in climate during the last 3 million years Addresses all the techniques used in paleoclimatic reconstruction from climate proxies With full color throughout and thoroughly revised

chapters on dating methods climate forcing ice cores marine sediments pollen analysis dendroclimatology and historical records Includes new chapters on speleothems loess and lake sediments More than 1 000 new references and 190 new figures Essential reading for those interested in how present trends in climate compare with changes that have occurred in the past

Encyclopedia of Ecology Brian D. Fath, 2018-08-23 Encyclopedia of Ecology Second Edition Four Volume Set continues the acclaimed work of the previous edition published in 2008 It covers all scales of biological organization from organisms to populations to communities and ecosystems Laboratory field simulation modelling and theoretical approaches are presented to show how living systems sustain structure and function in space and time New areas of focus include micro and macro scales molecular and genetic ecology and global ecology e g climate change earth transformations ecosystem services and the food water energy nexus are included In addition new international experts in ecology contribute on a variety of topics Offers the most broad ranging and comprehensive resource available in the field of ecology Provides foundational content and suggests further reading Incorporates the expertise of over 500 outstanding investigators in the field of ecology including top young scientists with both research and teaching experience Includes multimedia resources such as an Interactive Map Viewer and links to a CSDMS Community Surface Dynamics Modeling System an open source platform for modelers to share and link models dealing with earth system processes

Lochnagar Neil L. Rose, 2007-06-01 Previous volumes in this Developments in Paleoenvironmental Research DPER series have focussed on providing in depth descriptions of palaeoenvironmental techniques or have described the applications of these approaches on various regional bases The former of these now provide an invaluable series of standard text books for scientists and students while the latter show how the application of palaeo techniques can be used across broad geographical scales In this current volume we have attempted something a little different Not only are a variety of palaeo techniques applied to a single small lake but we have tried to show how these methods and the data derived from them can be integrated synergistically with contemporary monitoring and predictive modelling The acidification and metals research provide two good examples of this Along with other upland lakes across the UK the early research work at Lochnagar was based on assessing the competing hypotheses for the causes of surface water acidification As a result palaeolimnological techniques were used to assess the timing and extent of pH changes over hundreds of years The subsequent establishment of the UK Acid Waters Monitoring Network UK AWMN then allowed a range of biological and chemical parameters to be assessed routinely in order to determine the rate at which the lakes and streams including Lochnagar were recovering following emissions reductions

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