

Long-term Environmental Change in Arctic and Antarctic Lakes

Volume 8

Edited by
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and John P. Smol



 Springer

Longterm Environmental Change In Arctic And Antarctic Lakes

Shasha Hu



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

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

Fungi of Antarctica Luiz Henrique Rosa,2019-06-18 This book focuses on the fungi found in one of the most pristine regions on Earth Antarctica It discusses the fungal occurrence in all substrates of the region including soil seawater lake and marine sediments rocks ice and snow It also addresses the impact of climate changes on these organisms the genomic techniques developed to study them and how a number of compounds such as antibiotics and enzymes produced by the Antarctic fungi can be used in medicine agriculture and the chemical industry

Tracking Environmental Change Using Lake Sediments John B.H. Birks,André F. Lotter,Steve Juggins,John P. Smol,2012-04-08 Numerical and statistical methods have rapidly become part of a palaeolimnologist's tool kit They are used to explore and summarise complex data reconstruct past environmental variables from fossil assemblages and test competing hypotheses about the causes of observed changes in lake biota through history This book brings together a wide array of numerical and statistical techniques currently available for use in palaeolimnology and other branches of palaeoecology Visit <http://extras.springer.com> the Springer's Extras website to view data sets figures software and R scripts used or mentioned in this book

Arctic Climate Impact Assessment - Scientific Report Arctic Climate Impact Assessment,2005-11-07 Arctic Climate Impact Assessment was prepared by an international team of over 300 scientists experts and knowledgeable members of indigenous communities and is the most comprehensive volume on Arctic climate change available Illustrated in full color throughout

Glaciers and Glaciation, 2nd edition Douglas Benn,David J A Evans,2014-02-04 Glaciers and Glaciation is the classic textbook for all students of glaciation Stimulating and accessible it has established a reputation as a comprehensive and essential resource In this new edition the text references and illustrations have been thoroughly updated to give today's reader an up to the minute overview of the nature origin and behaviour of glaciers and the geological and geomorphological evidence for their past history on earth The first part of the book investigates the processes involved in forming glacier ice the nature of glacier climate relationships the mechanisms of glacier flow and the interactions of glaciers with other natural systems such as rivers lakes and oceans In the second part the emphasis moves to landforms and sediment the interpretation of the earth's glacial legacy and the reconstruction of glacial depositional environments and palaeoglaciology

Encyclopedia of Quaternary Science Cary Mock,2013-03-25 The second revised edition of the Encyclopedia of Quaternary Science Four Volume Set provides both students and professionals with an up to date reference work on this important and highly varied area of research There are lots of new articles and many of the articles that appeared in the first

edition have been updated to reflect advances in knowledge since 2006 when the original articles were written The second edition will contain about 375 articles written by leading experts around the world This major reference work is richly illustrated with more than 3 000 illustrations most of them in colour Research in the Quaternary sciences has advanced greatly in the last 10 years especially since topics like global climate change geologic hazards and soil erosion were put high on the political agenda This second edition builds upon its award winning predecessor to provide the reader assured quality along with essential updated coverage Contains 357 broad ranging articles 4310 pages written at a level that allows undergraduate students to understand the material while providing active researchers with a ready reference resource for information in the field Facilitates teaching and learning The first edition was regarded by many as the most significant single overview of Quaternary science ever yet Editor in Chief Scott Elias has managed to surpass that in this second edition by securing even more expert reviews whilst retaining his renowned editorial consistency that enables readers to navigate seamlessly from one unfamiliar topic to the next

Trends in Antarctic Terrestrial and Limnetic Ecosystems D.M. Bergstrom,P. Convey,A.H.L. Huiskes,2007-06-04 The Antarctic provides a suite of scenarios useful for investigating the range of climate change effects on terrestrial and limnetic biota The international SCAR programme RiSCC Regional Sensitivity to Climate Change in Antarctic Terrestrial and Limnetic Ecosystems is investigating these scenarios with the goals of 1 understanding the likely response of Antarctic biota to changing climates and 2 contributing to the development of broadly applicable theory concerning interactions between climate change indigenous and introduced species and ecosystem functioning The programme draws upon both new and existing data The purpose of the book is to provide based on the most up to date knowledge a synthesis of the likely effects of climate change on Antarctic terrestrial and limnetic ecosystems and thereby to contribute to their management and conservation based on the information

The Diatoms John P. Smol,Eugene F. Stoermer,2010-09-30 This much revised and expanded edition provides a valuable and detailed summary of the many uses of diatoms in a wide range of applications in the environmental and earth sciences Particular emphasis is placed on the use of diatoms in analysing ecological problems related to climate change acidification eutrophication and other pollution issues The chapters are divided into sections for easy reference with separate sections covering indicators in different aquatic environments A final section explores diatom use in other fields of study such as forensics oil and gas exploration nanotechnology and archaeology Sixteen new chapters have been added since the first edition including introductory chapters on diatom biology and the numerical approaches used by diatomists The extensive glossary has also been expanded and now includes over 1 000 detailed entries which will help non specialists to use the book effectively

Tracking Environmental Change Using Lake Sediments H. John B. Birks,André F. Lotter,Steve Juggins,John P. Smol,2012-04-06 Numerical and statistical methods have rapidly become part of a palaeolimnologist's tool kit They are used to explore and summarise complex data reconstruct past environmental variables from fossil assemblages and test competing

hypotheses about the causes of observed changes in lake biota through history This book brings together a wide array of numerical and statistical techniques currently available for use in palaeolimnology and other branches of palaeoecology Visit <http://extras.springer.com> the Springer's Extras website to view data sets figures software and R scripts used or mentioned in this book

Carbonates in Continental Settings, 2009-10-05 This book provides an up to date compilation of the latest research on the petrography facies paleoenvironmental significance and economic aspects of continental carbonates The overall organization of the book first emphasizes the descriptive aspects and processes operating on carbonate deposits in greatly varied settings and then considers applications for basin analysis as well as economic and historical aspects This volume will be a valuable tool for graduate and postgraduate students as well as for experienced researchers The second part volume 62 in this series will deal with the geochemistry diagenesis and applications of carbonates in continental settings Covering the greatly varied aspects of carbonate deposits from continental settings deposits Clear and easy to follow organization Up to date information so readers can find references from the classic literature to the most recent research

Encyclopedia of Global Warming and Climate Change, Second Edition S. George Philander, 2012-06-13 The First Edition of the Encyclopedia of Global Warming and Climate Change provided a multi authored academic yet non technical resource for students and teachers to understand the importance of global warming to appreciate the effects of human activity and greenhouse gases around the world and to learn the history of climate change and the research enterprise examining it This edition was well received with notable reviews Since its publication the debate over the advent of global warming at least partially brought on by human enterprise has continued to ebb and flow depending literally on the weather politics and media coverage of climate summits and debates Advances in research also change the discourse as new data is collected and new scientific projects continue to explore and explain global warming and climate change Thus a new Second Edition updates more than half of the original entries and adds new perspectives and content to keep students and researchers up to date in a field that has proven provocatively lively

Encyclopedia of Global Warming and Climate Change, Second Edition S. George Philander, 2012-07-10 This Second Edition of an academic yet non technical resource examines the effects history and ongoing research in the important field of global warming and climate change

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

Polar Lakes and Rivers Warwick F. Vincent, Johanna Laybourn-Parry, 2008-09-11 This is the first book to describe the ecology of high latitude lakes rivers and glacial environments in both the North and South polar regions From the lake rich floodplains of the Arctic to the deep enigmatic waters of Lake Vostok Antarctica these regions contain some of the most extraordinary aquatic ecosystems on Earth They provide a fascinating diversity of habitats for plant animal and microbial communities and are proving to be valuable model systems for exploring many ecological themes including landscape lake interactions adaptation of life to environmental extremes and controls on the structure and functioning of aquatic ecosystems Some of these waters also have direct global implications including permafrost thaw lakes as sources of greenhouse gases subglacial aquatic environments as a storehouse of ancient microbes and Arctic rivers as major inputs of freshwater and organic carbon to the World Ocean Given that many polar areas are experiencing greater climate warming than at lower latitudes these ecosystems can also be viewed as sentinels of global change This timely volume brings together many of the world's leading researchers in polar limnology to describe these diverse aquatic environments and their ecology It introduces each major ecosystem type examines the similarities and differences between Arctic and Antarctic systems as well as their responses to environmental change and describes new frontiers for future research A glossary of terms is provided for non specialists and a set of colour plates introduces the ecosystems and their biota **Polar Lakes and Rivers** will be of value to students and specialist researchers alike as well as to those with a more general interest in aquatic ecology polar environments or global change who require an authoritative overview of this fast emerging topic

Lake Ecosystem Ecology Gene E. Likens, 2010-05-20 A derivative of the Encyclopedia of Inland Waters **Lake Ecosystem Ecology** examines the workings of the lake and reservoir ecosystems of our planet Information and perspectives crucial to the understanding and management of current environmental problems are covered such as eutrophication acid rain and climate change Because the articles are drawn from an encyclopedia the articles are easily accessible to interested members of the public such as conservationists and environmental decision makers Includes an up to date summary of global aquatic ecosystems and issues Covers current

environmental problems and management solutions Features full color figures and tables to support the text and aid in understanding

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