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DIAZ MALDONADO

Global Change in the Holocene Psychology Press

This publication combines the interpretations of two major sets of data. One is the geophysical data that is used to interpret the position of the tectonic plates through geologic time. The other is based on a long time search of the geological literature to find, record, and evaluate the lithologic descriptions of countless reports around the globe; paying careful attention to those lithologies that have climatic implications. The introduction to this volume includes a detailed discussion of the lithologies, mineralogies and biogeographies that are considered to be the most reliable in identifying the climatic conditions existing during their formation and how they are used or not used in this compilation. Global paleoclimatic zones based on the climatically interpreted data points are identified during the twenty-eight time periods from Cambrian to Miocene using paleotectonic reconstructed maps. The paleoclimate of each time period is summarized and includes a discussion of the specific referenced data points that have been interpreted to be the most reliable available for that time period and location.

The Reconstruction of Climate in China for Historical Times Springer Science & Business Media
 Quaternary Ecology, Evolution, and Biogeography is an introduction to the study of the ecological and evolutionary processes that have shaped our present biosphere under the influence of glacial-interglacial cycles. Written by a renowned ecologist with paleoecological expertise, the book reviews the climatic changes that have occurred during the last million years, along with the responses of organisms and ecosystems. The book offers an understanding of the evolutionary origin of extant biodiversity, its biogeographical patterns, and the composition of modern ecological communities. In addition, it explores human evolution and the influence of our activities on the biosphere, especially in the last millennia. The valuable resource is intended for a wide audience, including researchers and students in natural sciences. It offers the latest information on how studying the past can contribute to our understanding of present climate issues for a better future.

Quaternary Paleoclimatology Univ of California Press

The context for understanding global climate change today lies in the records of Earth's past. This is demonstrated by decades of paleoclimate research by scientists in organizations such as the Integrated Ocean Drilling Program (IODP), the Antarctic Geological Drilling Program (ANDRILL), and many others. The purpose of this full colour textbook is to put key data and published case studies of past climate change at your fingertips, so that you can experience the nature of paleoclimate reconstruction. Using foundational geologic concepts, students explore a wide variety of topics, including: marine sediments, age determination, stable isotope paleoclimate proxies, Cenozoic climate change, climate cycles, polar climates, and abrupt warming and cooling events, students are invited to evaluate published scientific data, practice developing and testing hypotheses, and infer the broader implications of scientific results. It is our philosophy that addressing how we know is as important as addressing what we know about past climate change. Making climate change science accessible is the goal of this book. This book is intended for earth science students at a variety of levels studying paleoclimatology, oceanography, Quaternary science, or earth-system science. Additional resources for this book can be found at: <http://www.wiley.com/go/stjohn/climatehistory>.

Dynamical Paleoclimatology Geological Society of London

In the 1990s Richard B. Alley and his colleagues made headlines with the discovery that the last ice age came to an abrupt end over a period of only three years. In *The Two-Mile Time Machine*, Alley tells the fascinating history of global climate changes as revealed by reading the annual rings of ice from cores drilled in Greenland. He explains that humans have experienced an unusually temperate climate compared to the wild fluctuations that characterized most of prehistory. He warns that our

comfortable environment could come to an end in a matter of years and tells us what we need to know in order to understand and perhaps overcome climate changes in the future. In a new preface, the author weighs in on whether our understanding of global climate change has altered in the years since the book was first published, what the latest research tells us, and what he is working on next.

The Magnetic Field of the Earth Princeton University Press

The Mediterranean region contains a diverse and interesting climate ranging from areas with permanent glaciers to areas of subtropical, semiarid regions. The region is potentially sensitive to climate change and its progress has environmental, social, and economic implications within and beyond the region. Produced by the Mediterranean Climate Variability and Predictability Research Networking Project, this book reviews the evolution of the Mediterranean climate over the past two millennia with projections further into the twenty-first century as well as examining in detail various aspects of the Mediterranean region's climate including evolution, atmospheric variables, and oceanic and land elements. Integrated with this, the book also considers the social and economic problems or vulnerabilities associated with the region. Written and reviewed by multiple researchers to ensure a high level of information presented clearly, Mediterranean Climate Variables will be an invaluable source of information for geologists, oceanographers, and anyone interested in learning more about the Mediterranean climate. Written by leading experts in the field Presents clear, compelling, and concise evidence Includes the latest thinking in Mediterranean climate research
Quaternary Ecology, Evolution, and Biogeography John Wiley & Sons

One of Springer's Major Reference Works, this book gives the reader a truly global perspective. It is the first major reference work in its field. Paleoclimate topics covered in the encyclopedia give the reader the capability to place the observations of recent global warming in the context of longer-term natural climate fluctuations. Significant elements of the encyclopedia include recent developments in paleoclimate modeling, paleo-ocean circulation, as well as the influence of geological processes and biological feedbacks on global climate change. The encyclopedia gives the reader an entry point into the literature on these and many other groundbreaking topics.

The Climate of the Mediterranean Region John Wiley & Sons

Paleoclimatology is the field of study that aims to analyze the climate of the geologic past and climatic variability on earth. Some of the significant topics covered in this book are geological time scale, biogeochemistry, oceanography, remote sensing and measurement techniques to understand the climate of past, etc. The researches and case studies encompassed in this book are aimed at understanding past climate and climate changes in context of present and future climatic variability. This book will help new researchers by foregrounding their knowledge in this field.

Paleoclimatology Academic Press

Raymond S. Bradley provides his readers with a comprehensive and up-to-date review of all of the important methods used in paleoclimatic reconstruction, dating and paleoclimate modeling. Two comprehensive chapters on dating methods provide the foundation for all paleoclimatic studies and are followed by up-to-date coverage of ice core research, continental geological and biological records, pollen analysis, radiocarbon dating, tree rings and historical records. New methods using alkenones in marine sediments and coral studies are also described. Paleoclimatology, Second Edition, is an essential textbook for advanced undergraduate and postgraduate students studying climatology, paleoclimatology and paleoceanography worldwide, as well as a valuable reference for lecturers and researchers, appealing to archaeologists and scientists interested in environmental change. * Contains two up-to-date chapters on dating methods * Consists of the latest coverage of ice core research, marine sediment and coral studies, continental geological and biological records, pollen analysis, tree rings, and historical records * Describes the newest methods using alkenones in marine sediments and long continental pollen records * Addresses all important methods used in paleoclimatic reconstruction * Includes an extensive chapter on the use of models in

paleoclimatology * Extensive and up-to-date bibliography * Illustrated with numerous comprehensive figure captions

Paleoclimatology National Academies Press

One of Springer's Major Reference Works, this book gives the reader a truly global perspective. It is the first major reference work in its field. Paleoclimate topics covered in the encyclopedia give the reader the capability to place the observations of recent global warming in the context of longer-term natural climate fluctuations. Significant elements of the encyclopedia include recent developments in paleoclimate modeling, paleo-ocean circulation, as well as the influence of geological processes and biological feedbacks on global climate change. The encyclopedia gives the reader an entry point into the literature on these and many other groundbreaking topics.

Climate Since A.D. 1500 Princeton University Press

First Published in 2004. Routledge is an imprint of Taylor & Francis, an informa company.

Encyclopedia of Paleoclimatology and Ancient Environments Princeton University Press

This two-volume book provides a comprehensive, detailed understanding of paleoclimatology beginning by describing the "proxy data" from which quantitative climate parameters are reconstructed and finally by developing a comprehensive Earth system model able to simulate past climates of the Earth. It compiles contributions from specialists in each field who each have an in-depth knowledge of their particular area of expertise. The first volume is devoted to "Finding, dating and interpreting the evidence". It describes the different geo-chronological technical methods used in paleoclimatology. Different fields of geosciences such as: stratigraphy, magnetism, dendrochronology, sedimentology, are drawn from and proxy reconstructions from ice sheets, terrestrial (speleothems, lakes, and vegetation) and oceanic data, are used to reconstruct the ancient climates of the Earth. The second volume, entitled "Investigation into ancient climates," focuses on building comprehensive models of past climate evolution. The chapters are based on understanding the processes driving the evolution of each component of the Earth system (atmosphere, ocean, ice). This volume provides both an analytical understanding of each component using a hierarchy of models (from conceptual to very sophisticated 3D general circulation models) and a synthetic approach incorporating all of these components to explore the evolution of the Earth as a global system. As a whole this book provides the reader with a complete view of data reconstruction and modeling of the climate of the Earth from deep time to present day with even an excursion to include impacts on future climate.

Paleoclimates Allen & Unwin Australia

The climate record for the past 100,000 years clearly indicates that the climate system has undergone periodic-and often extreme-shifts, sometimes in as little as a decade or less. The causes of abrupt climate changes have not been clearly established, but the triggering of events is likely to be the result of multiple natural processes. Abrupt climate changes of the magnitude seen in the past would have far-reaching implications for human society and ecosystems, including major impacts on energy consumption and water supply demands. Could such a change happen again? Are human activities exacerbating the likelihood of abrupt climate change? What are the potential societal consequences of such a change? *Abrupt Climate Change: Inevitable Surprises* looks at the current scientific evidence and theoretical understanding to describe what is currently known about abrupt climate change, including patterns and magnitudes, mechanisms, and probability of occurrence. It identifies critical knowledge gaps concerning the potential for future abrupt changes, including those aspects of change most important to society and economies, and outlines a research strategy to close those gaps. Based on the best and most current research available, this book surveys the history of climate change and makes a series of specific recommendations for the future.

Paleoclimate Allen & Unwin Australia

Using the geologic records of ocean and lake sediment, ice cores, corals, and other natural archives, *Principles of Paleoclimatology* describes the history of the Earth's climate--the ice age cycles, sea level changes, volcanic activity, changes in atmosphere and solar radiation--and the resulting, sometimes catastrophic, biotic responses.

Quaternary Paleoclimatology Academic Press

The field of paleoclimatology relies on physical, chemical, and biological proxies of past climate changes that have been preserved in natural archives such as glacial ice, tree rings, sediments, corals, and speleothems. Paleoclimate archives obtained through field investigations, ocean sediment coring expeditions, ice sheet coring programs, and other projects allow scientists to reconstruct climate change over much of earth's history. When combined with computer model simulations, paleoclimatic reconstructions are used to test hypotheses about the causes of climatic change, such as greenhouse gases, solar variability, earth's orbital variations, and hydrological, oceanic, and tectonic processes. This book is a comprehensive, state-of-the art synthesis of paleoclimate research covering all geological timescales, emphasizing topics that shed light on modern trends in the earth's climate. Thomas M. Cronin discusses recent discoveries about past periods of global warmth, changes in atmospheric greenhouse gas concentrations, abrupt climate and sea-level change, natural temperature variability, and other topics directly relevant to controversies over the causes and impacts of climate change. This text is geared toward advanced undergraduate and graduate students and researchers in geology, geography, biology, glaciology, oceanography, atmospheric sciences, and climate modeling, fields that contribute to paleoclimatology. This volume can also serve as a reference for those requiring a general background on natural climate variability.

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Encyclopedia of Paleoclimatology and Ancient Environments Academic Press

Over the last decade, the study of cycles as a model for the earth's changing climate has become a new science. Earth Systems Science is the basis for understanding all aspects of anthropogenic global change, such as chemically forced global climate change. The work is aimed at those students interested in the emerging scientific discipline. Earth Systems Science is an integrated discipline that has been rapidly developing over the last two decades. New information is included in this updated edition so that the text remains relevant. This volume contains five new chapters, but of special importance is the inclusion of an expanded set of student exercises. The two senior authors are leading scientists in their fields and have been awarded numerous prizes for their research efforts. * First edition was widely adopted* Authors are highly respected in their field* Global climate change, integral to the book, is now one of the most important issues in atmospheric sciences and oceanography

Climates of the Past Elsevier

Earth's climate has undergone dramatic changes over the geologic timescale. At one extreme, Earth has been glaciated from the poles to the equator for periods that may have lasted millions of years. At another, temperatures were once so warm that the Canadian Arctic was heavily forested and large dinosaurs lived on Antarctica. Paleoclimatology is the study of such changes and their causes. Studying Earth's long-term climate history gives scientists vital clues about anthropogenic global warming and how climate is affected by human endeavor. In this book, Michael Bender, an internationally recognized authority on paleoclimate, provides a concise, comprehensive, and sophisticated introduction to the subject. After briefly describing the major periods in Earth history to provide geologic context, he discusses controls on climate and how the record of past climate is determined. The heart of the book then proceeds chronologically, introducing the history of climate changes over millions of years--its patterns and major transitions, and why average global temperature has varied so much. The book ends with a discussion of the Holocene (the past 10,000 years) and by putting manmade climate change in the context of paleoclimate. The most up-to-date overview on the subject, Paleoclimate provides an ideal introduction to undergraduates, nonspecialist scientists, and general readers with a scientific background.

The Long Thaw National Academies Press

The human impact on Earth's climate is often treated as a hundred-year issue lasting as far into the future as 2100, the year in which most climate projections cease. In *The Long Thaw*, David Archer, one of the world's leading climatologists, reveals the hard truth that these changes in climate will be "locked in," essentially forever. If you think that global warming means slightly hotter weather and a modest rise in sea levels that will persist only so long as fossil fuels hold out (or until we decide to stop burning them), think again. In *The Long Thaw*, David Archer predicts that if we continue to emit carbon dioxide we may eventually cancel the next ice age and raise the oceans by 50 meters. A human-driven, planet-wide thaw has already begun, and will continue to impact Earth's climate and sea level for hundreds of thousands of years. The great ice sheets in Antarctica and Greenland may take more than a century to melt, and the overall change in sea level will be one hundred times what is forecast for 2100. By comparing the global warming projection for the next century to natural climate changes of the distant past, and then looking into the future far beyond the usual scientific and political horizon of the year 2100, Archer reveals the hard truths of the long-term climate forecast. Archer shows how just a few centuries of fossil-fuel use will cause not only a climate storm that will last a few hundred years, but dramatic climate changes that will last thousands. Carbon dioxide emitted today will be a problem for millennia. For the first time, humans have become major players in shaping the long-term climate. In fact, a planetwide thaw driven by humans has already begun. But despite the seriousness of the situation, Archer argues that it is still not too late to avert dangerous climate change--if humans can find a way to cooperate as never before. Revealing why carbon dioxide may be an even worse gamble in the long run than in the short, this compelling and critically important book brings the best long-term climate science to a general audience for the first time. With a new preface that discusses recent advances in climate science, and the impact on global warming and climate change, *The Long Thaw* shows that it is still not too late to avert dangerous climate change--if we can find a way to cooperate as never before.

Deep-time Perspectives on Climate Change Springer

A member of the Inter-governmental Panel on Climate Change examines the fossil-fuel industry's public relations campaign to discredit the science of climate change and deny the reality of global warming.

Paleoclimatology Columbia University Press

Antarctic Climate Evolution is the first book dedicated to furthering knowledge on the evolution of the world's largest ice sheet over its ~34 million year history. This volume provides the latest information on subjects ranging from terrestrial and marine geology to sedimentology and glacier geophysics. An overview of Antarctic climate change, analyzing historical, present-day and future developments Contributions from leading experts and scholars from around the world Informs and updates climate change scientists and experts in related areas of study

Phanerozoic Paleoclimate Academic Press

00 This scientifically thorough, lucidly written work explores the nature, development, and extent of the archipelago's reef-building corals. Also included is an annotated list of the Scleractinian Corals by John W. Wells This scientifically thorough, lucidly written work explores the nature, development, and extent of the archipelago's reef-building corals. Also included is an annotated list of the Scleractinian Corals by John W. Wells