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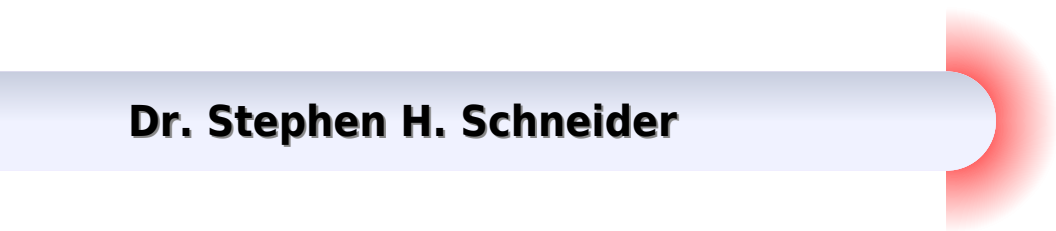
RICHARD B. ALLEY

WITH A NEW PREFACE BY THE AUTHOR



The Two Mile Time Machine Ice Cores Abrupt Climate Change And Our Future

Dr. Stephen H. Schneider



The Two Mile Time Machine Ice Cores Abrupt Climate Change And Our Future:

The Two-Mile Time Machine Richard B. Alley, 2014-10-26 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 Two-Mile Time Machine Richard B. Alley, 2002-07-21 Richard Alley, one of the world's leading climate researchers, tells the fascinating history of global climate changes as revealed by reading the annual rings of ice from cores drilled in Greenland. In the 1990s, he 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. Here, Alley offers the first popular account of the wildly fluctuating climate that characterized most of prehistory: long deep freezes alternating briefly with mild conditions. He explains that we humans have experienced an unusually temperate climate. But he warns our comfortable environment could come to an end in a matter of years. *The Two Mile Time Machine* begins with the story behind the extensive research in Greenland in the early 1990s when scientists were beginning to discover ancient ice as an archive of critical information about the climate. Drilling down two miles into the ice, they found atmospheric chemicals and dust that enabled them to construct a record of such phenomena as wind patterns and precipitation over the past 110,000 years. The record suggests that switches as well as dials control the earth's climate, affecting for example hot ocean currents that today enable roses to grow in Europe farther north than polar bears grow in Canada. Throughout most of history, these currents switched on and off repeatedly due partly to collapsing ice sheets throwing much of the world from hot to icy and back again in as little as a few years. Alley explains the discovery process in terms the general reader can understand while laying out the issues that require further study. What are the mechanisms that turn these dials and flip these switches? Is the earth due for another drastic change, one that will reconfigure coastlines or send certain regions into severe drought? Will global warming combine with natural variations in Earth's orbit to flip the North Atlantic switch again? Predicting the long-term climate is one of the greatest challenges facing scientists in the twenty-first century, and Alley tells us what we need to know in order to understand and perhaps overcome climate changes in the future.

The Two-mile Time Machine Richard B. Alley, 2000 **The Two-mile Time Machine** Albert Einstein, Richard B. Alley, 2000 Richard Alley tells the history of global climate changes as revealed by reading the annual rings of ice from cores drilled in Greenland. In the 1990s, he 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 Encyclopedia of Paleoclimatology and Ancient Environments Vivien Gornitz,2008-10-31 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 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 *A Cultural History of Climate* Wolfgang Behringer,2010 Explores the latest historical research on the development of the earth's climate showing how even minor changes in the climate could result in major social political and religious upheavals

Climate Change Science: A Modern Synthesis G. Thomas Farmer,John Cook,2013-01-12 An introduction to the principles of climate change science with an emphasis on the empirical evidence for climate change and a warming world Additional readings are given at the end of each chapter A list of Things to Know opens each chapter Chapters are arranged so that the student is first introduced to the scientific method's examples of the use of the scientific method from other sciences drawn from the history of science with an emphasis on climate science Climate science is treated in each chapter based on the premise of global warming Chapter treatments on the atmosphere biosphere geosphere hydrosphere and anthroposphere and their inter relationships are given Blueprint for a Methanol Society Junji Nakamura,Masayoshi Ishida,2025-12-07 This book presents a comprehensive vision for building a carbon neutral society with methanol at its core Part I clarifies the essential challenges of global warming and exposes the shortcomings of current carbon neutral strategies through facts and numbers highlighting the limits of renewables hydrogen and other proposed solutions Part II introduces the concept of a methanol based circular society showing how CO₂ can be recycled into methanol to serve as both an energy carrier and a chemical feedstock Part III explores practical pathways for implementation detailing the roles of technology

policy and business in fostering collaboration between industry government and academia while also empowering the next generation to act By combining scientific rigor with a clear roadmap this book provides critical knowledge for policymakers industry leaders researchers and citizens seeking actionable solutions to the climate crisis The English translation of this book originally in Japanese was facilitated by artificial intelligence The content was later revised by the author for accuracy

The Winds of Change Eugene Linden, 2006 Are we better prepared than our ancestors were to deal with climate change Explaining fast changing science Linden suggests that man must learn from the past to avoid a coming catastrophe Illustrations throughout *Climate Change* Daniel Bedford, John Cook, 2016-07-18 Climate change is one of the most controversial and misunderstood issues of the 21st century This book provides a clear understanding of the issue by presenting scientific facts to refute falsehoods and misinformation and to confirm the validity of other assertions Is public understanding of global warming suffering from politically biased news coverage Is it true that the global scientific community has not reached a consensus on whether humans are causing climate change This important book addresses these questions and many more about global warming identifying common claims about climate change and using quantifiable evidence based information to examine their veracity The authors of this work examine 35 specific claims that have been made about global climate change by believers and skeptics These assertions some true some false will guide readers to a much deeper understanding of the extent of climate change whether any climate change that is taking place is human caused whether climate change is likely to be a serious problem in the future whether scientists agree on the fundamentals of climate change and whether climate change impacts can be mitigated Examples of specific issues that are scrutinized and explained in the book include trends in the extent and condition of Arctic and Antarctic Sea ice packs the accuracy of climate forecasting models whether extreme weather events are increasing as a result of climate change and the benefits and drawbacks of various schemes to limit greenhouse gas emissions Meteorology, 1971 **On Gaia** Toby Tyrrell, 2013-07-21 A critical examination of James Lovelock s controversial Gaia hypothesis One of the enduring questions about our planet is how it has remained continuously habitable over vast stretches of geological time despite the fact that its atmosphere and climate are potentially unstable James Lovelock s Gaia hypothesis posits that life itself has intervened in the regulation of the planetary environment in order to keep it stable and favorable for life First proposed in the 1970s Lovelock s hypothesis remains highly controversial and continues to provoke fierce debate On Gaia undertakes the first in depth investigation of the arguments put forward by Lovelock and others and concludes that the evidence doesn t stack up in support of Gaia Toby Tyrrell draws on the latest findings in fields as diverse as climate science oceanography atmospheric science geology ecology and evolutionary biology He takes readers to obscure corners of the natural world from southern Africa where ancient rocks reveal that icebergs were once present near the equator to mimics of cleaner fish on Indonesian reefs to blind fish deep in Mexican caves Tyrrell weaves these and many other intriguing observations into a comprehensive

analysis of the major assertions and lines of argument underpinning Gaia and finds that it is not a credible picture of how life and Earth interact On Gaia reflects on the scientific evidence indicating that life and environment mutually affect each other and proposes that feedbacks on Earth do not provide robust protection against the environment becoming uninhabitable or against poor stewardship by us *Handbook of Landscape Archaeology* Bruno David, Julian Thomas, 2016-06-03 Over the past three decades landscape has become an umbrella term to describe many different strands of archaeology From the processualist study of settlement patterns to the phenomenologist's experience of the natural world from human impact on past environments to the environment's impact on human thought action and interaction the term has been used In this volume for the first time over 80 archaeologists from three continents attempt a comprehensive definition of the ideas and practices of landscape archaeology covering the theoretical and the practical the research and conservation and encasing the term in a global framework As a basic reference volume for landscape archaeology this volume will be the benchmark for decades to come All royalties on this Handbook are donated to the World Archaeological Congress **First Peoples in a New World** David J. Meltzer, 2009-05-27 More than 12 000 years ago in one of the greatest triumphs of prehistory humans colonized North America a continent that was then truly a new world Just when and how they did so has been one of the most perplexing and controversial questions in archaeology This dazzling cutting edge synthesis written for a wide audience by an archaeologist who has long been at the center of these debates tells the scientific story of the first Americans where they came from when they arrived and how they met the challenges of moving across the vast unknown landscapes of Ice Age North America David J Meltzer pulls together the latest ideas from archaeology geology linguistics skeletal biology genetics and other fields to trace the breakthroughs that have revolutionized our understanding in recent years Among many other topics he explores disputes over the hemisphere's oldest and most controversial sites and considers how the first Americans coped with changing global climates He also confronts some radical claims that the Americas were colonized from Europe or that a crashing comet obliterated the Pleistocene megafauna Full of entertaining descriptions of on site encounters personalities and controversies this is a compelling behind the scenes account of how science is illuminating our past

The Glaciers of Iceland Helgi Björnsson, 2016-10-04 This book is the first comprehensive overview and evaluation of the origins history and current size and condition of all of Iceland's major glaciers including Vatnajökull the largest in Europe at the beginning of the twenty first century It is not only illustrated with many beautiful photographs and graphs of recent statistics and scientific data but is also a collection of historical writings and drawings from annals sagas folk tales diaries reports stories and poems as it presents a unique approach to the study of glaciers on an island in the North Atlantic Balancing and comparing the world of man with the world of nature the perceptions of art and culture with the systematic and pragmatic analyses of science The Glaciers of Iceland present a wide spectrum of readers with a new and stimulating view of the origins development and possible future of these massive natural phenomena as well as the study and role of

glaciology within specific time lines and geographical locations Icelandic glaciers the author argues could prove essential for understanding the current unsettling progress of global warming The glaciers of Iceland therefore aims at presenting to a wide readership an original historical cultural and scientific overview of these geophysical features in Iceland while also suggesting increasingly important lessons and models for man s future interaction with the world s glaciers as a whole

Encyclopedia of Climate and Weather Dr. Stephen H. Schneider, 2011-06-09 This three volume A to Z compendium consists of over 300 entries written by a team of leading international scholars and researchers working in the field Authoritative and up to date the encyclopedia covers the processes that produce our weather important scientific concepts the history of ideas underlying the atmospheric sciences biographical accounts of those who have made significant contributions to climatology and meteorology and particular weather events from extreme tropical cyclones and tornadoes to local winds

Treatise on Geomorphology, 2013-02-27 The changing focus and approach of geomorphic research suggests that the time is opportune for a summary of the state of discipline The number of peer reviewed papers published in geomorphic journals has grown steadily for more than two decades and more importantly the diversity of authors with respect to geographic location and disciplinary background geography geology ecology civil engineering computer science geographic information science and others has expanded dramatically As more good minds are drawn to geomorphology and the breadth of the peer reviewed literature grows an effective summary of contemporary geomorphic knowledge becomes increasingly difficult The fourteen volumes of this *Treatise on Geomorphology* will provide an important reference for users from undergraduate students looking for term paper topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of a particular topic Information on the historical development of diverse topics within geomorphology provides context for ongoing research discussion of research strategies equipment and field methods laboratory experiments and numerical simulations reflect the multiple approaches to understanding Earth s surfaces and summaries of outstanding research questions highlight future challenges and suggest productive new avenues for research Our future ability to adapt to geomorphic changes in the critical zone very much hinges upon how well landform scientists comprehend the dynamics of Earth s diverse surfaces This *Treatise on Geomorphology* provides a useful synthesis of the state of the discipline as well as highlighting productive research directions that Educators and students researchers will find useful Geomorphology has advanced greatly in the last 10 years to become a very interdisciplinary field Undergraduate students looking for term paper topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of a particular topic will find the answers they need in this broad reference work which has been designed and written to accommodate their diverse backgrounds and levels of understanding Editor in Chief Prof J F Shroder of the University of Nebraska at Omaha is past president of the QG G section of the Geological Society of America and present Trustee of the GSA Foundation while being well respected in the geomorphology research community

and having won numerous awards in the field A host of noted international geomorphologists have contributed state of the art chapters to the work Readers can be guaranteed that every chapter in this extensive work has been critically reviewed for consistency and accuracy by the World expert Volume Editors and by the Editor in Chief himself No other reference work exists in the area of Geomorphology that offers the breadth and depth of information contained in this 14 volume masterpiece From the foundations and history of geomorphology through to geomorphological innovations and computer modelling and the past and future states of landform science no stone has been left unturned *Climate Justice* Henry Shue,2014-06-12 The fruit of twenty years of moral reflection on the emerging greatest challenge to humanity of the 21st century these far sighted and influential essays by a pioneering practical philosopher on the tangled questions of justice between nations and justice across generations confronting all attempts at international cooperation in controlling climate change sharply crystallize the central choices and offer constructive directions forward Arguing that persistent attempts by U S negotiators to avoid the fundamental issues of justice at the heart of persistent international disagreement on the terms of a binding multilateral treaty are as morally misguided as they are diplomatically counter productive Henry Shue has built a case that efforts to price carbon through cap and trade or carbon taxes as a mechanism to drive down greenhouse gas emissions by the affluent must for both ethical and political reasons be complemented by international transfers that temporarily subsidize the development of non carbon energy and its dissemination to those trapped in poverty Our vital escape from climate change rooted in the dominance of the fossil fuel regime ought not and in fact need not come at the price of de railing the escape of the world s poorest from poverty rooted in lack of affordable energy that does not undermine the climate The momentum of changes in the planetary climate system and the political inertia of energy regimes mean that future generations like the poorest of the present are vulnerable to our decisions and they have rights not to be left helpless by those of us with the power instead to leave them hope **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

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