

RICHARD B. ALLEY

THE
TWO-MILE
TIME MACHINE

ICE CORES, ABRUPT CLIMATE
CHANGE, AND OUR FUTURE

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

Daniel Bedford, John Cook



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 and 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

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 **Resolving Conflicts Arising from the Privatization of Environmental Data** National

Research Council, Division on Earth and Life Studies, Board on Earth Sciences and Resources, Committee on Geophysical and Environmental Data, 2001-02-01 Reliable collections of science based environmental information are vital for many groups of users and for a number of purposes For example electric utility companies predict demand during heat waves structural engineers design buildings to withstand hurricanes and earthquakes water managers monitor each winter's snow pack and farmers plant and harvest crops based on daily weather predictions Understanding the impact of human activities on climate water ecosystems and species diversity and assessing how natural systems may respond in the future are becoming increasingly important for public policy decisions Environmental information systems gather factual information transform it into information products and distribute the products to users Typical uses of the information require long term consistency hence the operation of the information system requires a long term commitment from an institution agency or corporation The need to keep costs down provides a strong motivation for creating multipurpose information systems that satisfy scientific commercial and operational requirements rather than systems that address narrow objectives Resolving Conflicts Arising from the Privatization of Environmental Data focuses on such shared systems *Environmental Economics and Ecosystem Services* Randall Bluffstone, 2025-02-07 *Environmental Economics and Ecosystem Services* provides a rigorous yet accessible introduction to environmental economics using ecosystem services as the underlying framework Assuming no prior knowledge of economics and using a conversational writing style the focus is on exploring society's linkages with the environment and how economics can help solve key environmental problems Structured in three parts the book first introduces readers to the key theories in environmental economics and ecosystem services and then explores the challenges of conservation The final section examines environmental policy options such as cap and trade behavioral nudges community based natural resource management and carbon taxes There is a strong international focus throughout the book with real life examples taken from North America Europe Asia Africa and other regions Students are supported by a range of pedagogical features including chapter objectives chapter summaries discussion questions and further reading suggestions In addition the book offers worked examples analytical problems and Challenge Yourself boxes to develop critical thinking skills Lecture slides and answers to questions for discussion and practice problems are available for instructors This is the ideal text for introductory courses in environmental economics ecological economics economics of sustainability environmental management environmental policy and ecosystem services **Meteorology** ,1971

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