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9. Richard Alley - Perspectives on Limits to Growth: World on the Edge Two Mile Time Machine Ice

Whilst tackling a complex, scientific subject, The Two-Mile Mile Machine is not written for scientists, instead Alley aims to inform the non-scientific reader of one the most incredibly important issues of today by using his practical experience in the Arctic and Antarctic.

The Two-Mile Time Machine: Ice Cores, Abrupt Climate ...

"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.

The Two-Mile Time Machine: Ice Cores, Abrupt Climate ...

"The Two-Mile Time Machine takes a story that has been much discussed in the press and revitalizes it with the author's infectious enthusiasm and with background information on the history of ice core drilling. It provides an excellent survey for the general reader and those interested in the history of scientific exploration and issues related to science and society."

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By Richard B. Alley The Two-Mile Time Machine - Ice Cores ...
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.

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'Earth's Climate' summarises the major lessons to be learned from 550 million years of climate changes, as a way of evaluating the climatological impact on and by humans in this century. The book also looks ahead to possible effects during the next several centuries of fossil fuel use.

The new Second Edition of *Glacial Geology* provides a modern, comprehensive summary of glacial geology and geomorphology. It has been thoroughly revised and updated from the original First Edition. This book will appeal to all students interested in the landforms and sediments that make up glacial landscapes. The aim of the book is to outline glacial landforms and sediments and to provide the reader with the tools required to interpret glacial landscapes. It describes how glaciers work and how the processes of glacial erosion and deposition which operate within them are recorded in the glacial landscape. The Second Edition is presented in the same clear and concise format as the First Edition, providing detailed explanations that are not cluttered with unnecessary detail. Additions include a new chapter on Glaciations around the Globe, demonstrating the range of glacial environments present on Earth today and a new chapter on Palaeoglaciology, explaining how glacial landforms and sediments are used in ice-sheet reconstructions. Like the original book, text boxes are used throughout to explain key concepts and to introduce students to case study material from the glacial literature. Newly updated sections on Further Reading are also included at the end of each chapter to point the reader towards key references. The book is illustrated throughout with colour photographs and illustrations.

A riveting, urgent account of the explorers and scientists racing to

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Understand the rapidly melting ice sheet in Greenland, a dramatic harbinger of climate change — Jon Gertner takes readers to spots few journalists or even explorers have visited. The result is a gripping and important book. — Elizabeth Kolbert, Pulitzer Prize-winning author of *The Sixth Extinction* **NAMED ONE OF THE BEST BOOKS OF THE YEAR BY** *The Washington Post* — *The Christian Science Monitor* — *Library Journal* Greenland: a remote, mysterious island five times the size of California but with a population of just 56,000. The ice sheet that covers it is 700 miles wide and 1,500 miles long, and is composed of nearly three quadrillion tons of ice. For the last 150 years, explorers and scientists have sought to understand Greenland — at first hoping that it would serve as a gateway to the North Pole, and later coming to realize that it contained essential information about our climate. Locked within this vast and frozen white desert are some of the most profound secrets about our planet and its future. Greenland's ice doesn't just tell us where we've been. More urgently, it tells us where we're headed. In *The Ice at the End of the World*, Jon Gertner explains how Greenland has evolved from one of earth's last frontiers to its largest scientific laboratory. The history of Greenland's ice begins with the explorers who arrived here at the turn of the twentieth century — first on foot, then on skis, then on crude, motorized sleds — and embarked on grueling expeditions that took as long as a year and often ended in frostbitten tragedy. Their original goal was simple: to conquer Greenland's seemingly infinite interior. Yet their efforts eventually gave way to scientists who built lonely encampments out on the ice and began drilling — one mile, two miles down. Their aim was to pull up ice cores that could reveal the deepest mysteries of earth's past, going back hundreds of thousands of years. Today, scientists from all over the world are deploying every technological tool available to uncover the secrets of this frozen island before it's too late. As Greenland's ice melts and runs off into the sea, it not only threatens to affect hundreds of millions of people who live in coastal areas. It will also have drastic effects

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on ocean currents, weather systems, economies, and migration patterns. Gertner chronicles the unfathomable hardships, amazing discoveries, and scientific achievements of the Arctic's explorers and researchers with a transporting, deeply intelligent style—and a keen sense of what this work means for the rest of us. The melting ice sheet in Greenland is, in a way, an analog for time. It contains the past. It reflects the present. It can also tell us how much time we might have left.

In recent years, scientists have begun to focus on the idea that healthy, functioning ecosystems provide essential services to human populations, ranging from water purification to food and medicine to climate regulation. Lacking a healthy environment, these services would have to be provided through mechanical means, at a tremendous economic and social cost. *Nature and the Marketplace* examines the controversial proposition that markets should be designed to capture the value of those services. Written by an economist with a background in business, it evaluates the real prospects for various of nature's marketable services to "turn profits" at levels that exceed the profits expected from alternative, ecologically destructive, business activities. The author: describes the infrastructure that natural systems provide, how we depend on it, and how we are affecting it explains the market mechanism and how it can lead to more efficient resource use looks at key economic activities -- such as ecotourism, bioprospecting, and carbon sequestration -- where market forces can provide incentives for conservation examines policy options other than the market, such as pollution credits and mitigation banking considers the issue of sustainability and equity between generations .*Nature and the Marketplace* presents an accessible introduction to the concept of ecosystem services and the economics of the environment. It offers a clear assessment of how market approaches can be used to protect the environment, and illustrates that with a number of cases in which the value of ecosystems has actually been captured by

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markets. The book offers a straightforward business economic analysis of conservation issues, eschewing romantic notions about ecosystem preservation in favor of real-world economic solutions. It will be an eye-opening work for professionals, students, and scholars in conservation biology, ecology, environmental economics, environmental policy, and related fields.

The Global Carbon Cycle is a short introduction to this essential geochemical driver of the Earth's climate system, written by one of the world's leading climate-science experts. In this one-of-a-kind primer, David Archer engages readers in clear and simple terms about the many ways the global carbon cycle is woven into our climate system. He begins with a concise overview of the subject, and then looks at the carbon cycle on three different time scales, describing how the cycle interacts with climate in very distinct ways in each. On million-year time scales, feedbacks in the carbon cycle stabilize Earth's climate and oxygen concentrations. Archer explains how on hundred-thousand-year glacial/interglacial time scales, the carbon cycle in the ocean amplifies climate change, and how, on the human time scale of decades, the carbon cycle has been dampening climate change by absorbing fossil-fuel carbon dioxide into the oceans and land biosphere. A central question of the book is whether the carbon cycle could once again act to amplify climate change in centuries to come, for example through melting permafrost peatlands and methane hydrates. The Global Carbon Cycle features a glossary of terms, suggestions for further reading, and explanations of equations, as well as a forward-looking discussion of open questions about the global carbon cycle.

An insider account of how scientists unraveled the mystery of the thawing Arctic In the 1990s, researchers in the Arctic noticed that floating summer sea ice had begun receding. This was accompanied by shifts in ocean circulation and unexpected changes in weather patterns throughout the world. The Arctic's perennially frozen

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ground, known as permafrost, was warming, and treeless tundra was being overtaken by shrubs. What was going on? *Brave New Arctic* is Mark Serreze's riveting firsthand account of how scientists from around the globe came together to find answers. In a sweeping tale of discovery spanning three decades, Serreze describes how puzzlement turned to alarm as researchers concluded that the Arctic is rapidly thawing due to climate change—and humans are to blame.

The #1 international bestseller on climate change that's been endorsed by policy makers, scientists, writers and energy executives around the world. Tim Flannery's *The Weather Makers* contributed in bringing the topic of global warming to worldwide prominence. For the first time, a scientist provided an accessible and comprehensive account of the history, current status, and future impact of climate change, writing what has been acclaimed by reviewers everywhere as the definitive book on global warming. With one out of every five living things on this planet committed to extinction by the levels of greenhouse gases that will accumulate in the next few decades, we are reaching a global climatic tipping point. *The Weather Makers* is both an urgent warning and a call to arms, outlining the history of climate change, how it will unfold over the next century, and what we can do to prevent a cataclysmic future. Originally somewhat of a global warming skeptic, Tim Flannery spent several years researching the topic and offers a connect-the-dots approach for a reading public who has received patchy or misleading information on the subject. Pulling on his expertise as a scientist to discuss climate change from a historical perspective, Flannery also explains how climate change is interconnected across the planet. This edition includes a new afterword by the author. "An authoritative, scientifically accurate book on global warming that sparkles with life, clarity, and intelligence." —*The Washington Post*

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