

ICE AGES

SOLVING THE MYSTERY

**John Imbrie and
Katherine Palmer Imbrie**



Ice Ages Solving The Mystery

Valentí Rull



Ice Ages Solving The Mystery:

Ice Ages John Imbrie, Katherine Palmer Imbrie, 1986 Scientists charged with producing a map of the earth during the last ice age ultimately confirmed the theory that the earth's irregular orbital motions account for the bizarre climatic changes which bring on ice ages This book tells the story of those periods what they were like why they occurred and when the next ice age is due

Ice Ages John Imbrie, Katherine Palmer Imbrie, 1979 This book tells the exciting story of the ice ages what they were like why they occurred and when the next one is due The solution to the ice age mystery originated when the National Science Foundation organized the CLIMAP project to study changes in the earth's climate over the past 700 000 years One of the goals was to produce a map of the earth during the last ice age Scientists examined cores of sediment from the Indian Ocean bed and deciphered a continuous history for the past 500 000 years Their work ultimately confirmed the theory that the earth's irregular orbital motions account for the bizarre climatic changes which bring on ice ages This is a tale of scientific discovery and the colorful people who participated Louis Agassiz the young Swiss naturalist whose geological studies first convinced scientists that the earth has recently passed through an ice age the Reverend William Buckland an eccentric but respected Oxford professor who fought so hard against the ice age theory before accepting it James Croll a Scots mechanic who educated himself as a scientist and first formulated the astronomic theory of ice ages Milutin Milankovitch the Serbian mathematician who gave the astronomic theory its firm quantitative foundation and the many other astronomers geochemists geologists paleontologists and geophysicists who have been engaged for nearly a century and a half in the pressing search for a solution to the ice age mystery

Ice Ages John Imbrie, Katherine Palmer Imbrie, 1979 Presents recent findings on and confirmation of the correctness of one of the several theories regarding causes of ice ages

The Ice Age Jürgen Ehlers, 2022-08-19 Nothing new from the Ice Age Far from it Barely ten years have passed since the first edition of this book was published but in that time researchers around the world have developed new methods and published their findings in scientific journals Consequently ideas about the course of the Ice Age have changed dramatically The sequence of the individual ice advances the direction of ice movement and the direction of meltwater drainage are only partially known but they can be reconstructed This book offers in depth information about the state of the investigations Ice ages are the periods of the earth's history in which at least one polar region is glaciated or covered by sea ice Thus we are currently living in an Ice Age The present Ice Age is also the period in which humans started to intervene in the shaping of the earth The results are obvious Aerial and satellite images can be used to trace the melting of glaciers but also the decay of the Arctic permafrost and the clearing of the Brazilian rainforest This book is a translation of the original German 2nd edition *Das Eiszeitalter* by Juergen Ehlers published by Springer Verlag GmbH Germany part of Springer Nature in 2020 The translation was done with the help of artificial intelligence machine translation by DeepL.com A subsequent human revision was done primarily in terms of content so that the book will read stylistically differently from a conventional

translation Springer Nature works continuously to further the development of tools for the production of books and promotes technologies to support the authors

Discovering the Ice Ages Tobias Krüger, 2013-06-17 Tobias Krüger explores the discovery of the Ice Ages how the idea was received and what further research it stimulated The approach used in *Discovering the Ice Ages* is uniquely sweeping The contemporary debates on the subject are compared from an international perspective Krüger retraces the arguments advanced from the middle of the 18th century to the threshold of the 20th century The positions held by defenders of the glacial theory as well as those by its most important opponents are set within the context of the then current understanding of geology In an interdisciplinary overview Krüger then focuses on the impetus gained from early ice age research The most prominent examples worth mentioning are the discovery of trace gases and the greenhouse effect

Climate Change Jason Smerdon, 2018-10-30 This second edition of *Climate Change* is an accessible and comprehensive guide to the science behind global warming Exquisitely illustrated the text is geared toward students at a variety of levels Edmond A Mathez and Jason E Smerdon provide a broad informative introduction to the science that underlies our understanding of the climate system and the effects of human activity on the warming of our planet Mathez and Smerdon describe the roles that the atmosphere and ocean play in our climate introduce the concept of radiation balance and explain climate changes that occurred in the past They also detail the human activities that influence the climate such as greenhouse gas and aerosol emissions and deforestation as well as the effects of natural phenomena *Climate Change* concludes with a look toward the future discussing climate model projections exploring the economic and technological realities of energy production and presenting a view of the global warming challenge through the lens of risk Each chapter features profiles of scientists who advanced our understanding of the material discussed This new edition expands on the first edition's presentation of scientific concepts making it ideal for classroom use for a wide swath of undergraduate and masters students with both science and nonscience backgrounds

Global Environments Through the Quaternary David E. Anderson, Andrew Goudie, Adrian Parker, 2013-02-07 This book delves into the environmental changes that have taken place during the Quaternary the two to three million years during which humans have inhabited the Earth and conveys the relevance of the study of this period to current environmental and climatic concerns

Before the Indians Björn Kurtén, 1988 In this illustrated work Kurtén offers a vivid panorama of vertebrate animal life as it unfolded during the more than three million years before humans came to the New World

A Memory of Ice Elizabeth Truswell, 2019-08-01 In the southern summer of 1972-73 the *Glomar Challenger* was the first vessel of the international Deep Sea Drilling Project to venture into the seas surrounding Antarctica confronting severe weather and ever present icebergs *A Memory of Ice* presents the science and the excitement of that voyage in a manner readable for non scientists Woven into the modern story is the history of early explorers scientists and navigators who had gone before into the Southern Ocean The departure of the *Glomar Challenger* from Fremantle took place 100 years after the *HMS Challenger* weighed anchor from Portsmouth

England at the start of its four year voyage sampling and dredging the world's oceans Sailing south the Glomar Challenger crossed the path of James Cook's HMS Resolution then on its circumnavigation of Antarctica in search of the Great South Land Encounters with Lieutenant Charles Wilkes of the US Exploring Expedition and Douglas Mawson of the Australasian Antarctic Expedition followed In the Ross Sea the voyages of the HMS Erebus and HMS Terror under James Clark Ross with the young Joseph Hooker as botanist were ever present The story of the Glomar Challenger's iconic voyage is largely told through the diaries of the author then a young scientist experiencing science at sea for the first time It weaves together the physical history of Antarctica with how we have come to our current knowledge of the polar continent This is an attractive lavishly illustrated and curiosity satisfying read for the general public as well as for scholars of science

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

The Whole Story of Climate E. Kirsten Peters, 2012-11-20 In the publicity surrounding global warming climate scientists are usually the experts consulted by the media We rarely hear from geologists who for almost two hundred years have been studying the history of Earth's dramatic and repeated climate revolutions as revealed in the evidence of rocks and landscapes This book written by a geologist describes the important contributions that geology has made to our understanding of climate change What emerges is a much more complex and nuanced picture than is usually presented While the average person often gets the impression that the Earth's climate would be essentially stable if it weren't for the deleterious effects of greenhouse gases in fact the history of the earth over many millennia reveals a constantly changing climate As the author explains several long cold eras have been punctuated by shorter warm periods The most recent of these warm spells the one in which we are now living started ten thousand years ago based on previous patterns we should be about due for the return of another frigid epoch Some scientists even think that the warming of the planet caused by man made greenhouse gasses tied to agriculture in the past few thousand years may have held off the next ice age Though this may be possible much remains uncertain But what is clearly known is that major climate shifts can be appallingly rapid occurring over as little as twenty or thirty years One danger of dumping greenhouse gases into the atmosphere is that they may increase the chance that this climate switch will be thrown with catastrophic effects on worldwide agriculture Besides her discussion of climate the author includes chapters on how early naturalists pieced together the complicated geological history of Earth and she teaches the reader how to interpret the evidence of rock formations and landscape patterns all around us Accessible and engagingly written this book is essential reading for anyone looking to understand one of our most important contemporary debates

Quaternary and Recent Processes and Forms (1890-1965) and the Mid-century Revolutions Richard J.

Chorley, 2008 Ice Ages and Astronomical Causes Richard A. Muller, Gordon J. MacDonald, 2002-08-26 It is not possible to understand the present or future climate unless scientists can account for the enormous and rapid cycles of glaciation that have taken place over the last million years and which are expected to continue into the future A great deal has happened in the theory of the ice ages over the last decade and it is now widely accepted that ice ages are driven by changes in the Earth's orbit The study of ice ages is very interdisciplinary covering geology physics glaciology oceanography atmospheric science planetary orbit calculations astrophysics and statistics *The Maunder Minimum And The Variable Sun-earth Connection*

Willie Wei-hock Soon, Steven H Yaskell, 2003-12-29 This book takes an excursion through solar science science history and geoclimate with a husband and wife team who revealed some of our sun's most stubborn secrets E Walter and Annie S D Maunder's work helped in understanding our sun's chemical electromagnetic and plasma properties They knew the sun's sunspot migration patterns and its variable climate affecting inactive and active states in short and long time frames An inactive solar period starting in the mid seventeenth century lasted approximately seventy years one that E Walter Maunder worked hard to make us understand the Maunder Minimum of c 1620 1720 which was posthumously named for him With ongoing concern over global warming and the continuing failure to identify root causes driving earth's climatic changes the Maunder's story outlines how our cyclical sun can alter climate The book goes on to view the sun-earth connection in terms of geomagnetic variation and climatic change contemporary views on the sun's operating mechanisms are explored and the effects these have on the earth over long and short time scales are pondered If not a call to widen earth's climate research to include the sun this book strives to illustrate how solar causes and effects can influence earth's climate in ways we must understand in order to enhance solar system research and our well being **Geology and the Pioneers of Earth Science**

Mike Leeder, 2024-07-15 Momentous changes particularly in the 1960's transformed geology into earth science These developments and the scientists behind them have been neglected until now and are the subject of this book **Earth's Climate Evolution** Colin P. Summerhayes, 2015-07-13 To understand climate change today we first need to know how Earth's climate changed over the past 450 million years Finding answers depends upon contributions from a wide range of sciences not just the rock record uncovered by geologists In Earth's Climate Evolution Colin Summerhayes analyzes reports and records of past climate change dating back to the late 18th century to uncover key patterns in the climate system The book will transform debate and set the agenda for the next generation of thought about future climate change The book takes a unique approach to the subject providing a description of the greenhouse and icehouse worlds of the past 450 million years since land plants emerged ignoring major earlier glaciations like that of Snowball Earth which occurred around 600 million years ago in a world free of land plants It describes the evolution of thinking in palaeoclimatology and introduces the main players in the field and how their ideas were received and in many cases subsequently modified It records the arguments and

discussions about the merits of different ideas along the way It also includes several notes made from the author's own personal involvement in palaeoclimatological and palaeoceanographic studies and from his experience of working alongside several of the major players in these fields in recent years This book will be an invaluable reference for both undergraduate and postgraduate students taking courses in related fields and will also be of interest to historians of science and or geology climatology and oceanography It should also be of interest to the wider scientific and engineering community high school science students policy makers and environmental NGOs Reviews Outstanding in its presentation of the facts and a good read in the way that it intersperses the climate story with the author's own experiences This book puts the climate story into a compelling geological history Dr James Baker The book is written in very clear and concise prose and takes original enlightening and engaging approach to talking about ideas from the perspective of the scientists who promoted them Professor Christopher R Scotese A thrilling ride through continental drift and its consequences Professor Gerald R North Written in a style and language which can be easily understood by laymen as well as scientists Professor Dr J rn Thiede What makes this book particularly distinctive is how well it builds in the narrative of change in ideas over time Holocene book reviews May 2016 This is a fascinating book and the author's biographical approach gives it great human appeal E Adlard

Encyclopedia of Environmental Change John A Matthews, 2013-12-13 Accessibly written by a team of international authors the Encyclopedia of Environmental Change provides a gateway to the complex facts concepts techniques methodology and philosophy of environmental change This three volume set illustrates and examines topics within this dynamic and rapidly changing interdisciplinary field The encyclopedia includes all of the following aspects of environmental change Diverse evidence of environmental change including climate change and changes on land and in the oceans Underlying natural and anthropogenic causes and mechanisms Wide ranging local regional and global impacts from the polar regions to the tropics Responses of geo ecosystems and human environmental systems in the face of past present and future environmental change Approaches methodologies and techniques used for reconstructing dating monitoring modelling projecting and predicting change Social economic and political dimensions of environmental issues environmental conservation and management and environmental policy Over 4 000 entries explore the following key themes and more Conservation Demographic change Environmental management Environmental policy Environmental security Food security Glaciation Green Revolution Human impact on environment Industrialization Landuse change Military impacts on environment Mining and mining impacts Nuclear energy Pollution Renewable resources Solar energy Sustainability Tourism Trade Water resources Water security Wildlife conservation The comprehensive coverage of terminology includes layers of entries ranging from one line definitions to short essays making this an invaluable companion for any student of physical geography environmental geography or environmental sciences **Global Warming** Frances Drake, 2014-05-01 This topical textbook provides a bridge between technical and popular texts on global warming within the broader context of climate

change Written at an introductory level it explains the interacting components of this system what the greenhouse effect is and how scientists seek to predict climate change It makes accessible the technical and heavy science literature to the non science student Global warming is one of the major environmental problems facing the world today But it is an issue surrounded by great contention because it is based largely on scientific prediction and has yet to be proven Opinion is divided regarding whether global warming will occur and if it does what the effects will be In order to appreciate the uncertainties surrounding this issue it is necessary to understand the workings of the climate system and the methods by which scientists seek to predict climate change Global Warming aims to make accessible the heavily technical literature to the non science student providing a bridge between the highly scientific and the popular non academic texts Placing global warming within the broader context of climate change this textbook details the interacting components of the climatic system reviewing the importance of changing carbon dioxide levels for the evolution of the Earth s atmosphere and climate Utilising observed and modelled data it presents the latest evidence for and against global warming whilst highlighting the difficulties involved with analysing both types of data and introducing areas of controversy within research The book also addresses the important problem of making policy decisions for the future based on the uncertain science of global warming

Quaternary Ecology, Evolution, and Biogeography Valentí Rull, 2020-03-05 Quaternary Ecology Evolution and Biogeography offers 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 an ecologist with paleoecological expertise this book reviews the climatic changes that have occurred during the last 2.6 million years along with the responses of organisms and ecosystems It 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 This book offers the latest information on how studying the past can contribute to our understanding of present climate issues for a better future and is an ideal resource for researchers and students in the natural sciences Includes the latest developments in genomics and their relevance within Quaternary evolution Offers a holistic view of the origin of biodiversity patterns and community assembly Discusses the role of climate on human evolution and the ecological consequences for natural systems

Paleoclimatology Colin P. Summerhayes, 2020-06-22 Life on our planet depends upon having a climate that changes within narrow limits not too hot for the oceans to boil away nor too cold for the planet to freeze over Over the past billion years Earth s average temperature has stayed close to 14-15 °C oscillating between warm greenhouse states and cold icehouse states We live with variation but a variation with limits Paleoclimatology is the science of understanding and explaining those variations those limits and the forces that control them Without that understanding we will not be able to foresee future change accurately as our population grows Our impact on the planet is now equal to a geological force such that many geologists now see us as living in a new geological era the Anthropocene

Paleoclimatology describes Earth's passage through the greenhouse and icehouse worlds of the past 800 million years including the glaciations of Snowball Earth in a world that was then free of land plants. It describes the operation of the Earth's thermostat which keeps the planet fit for life and its control by interactions between greenhouse gases, land plants, chemical weathering, continental motions, volcanic activity, orbital change, and solar variability. It explains how we arrived at our current understanding of the climate system by reviewing the contributions of scientists since the mid 1700s, showing how their ideas were modified as science progressed. And it includes reflections based on the author's involvement in palaeoclimatic research. The book will transform debate and set the agenda for the next generation of thought about future climate change. It will be an invaluable course reference for undergraduate and postgraduate students in geology, climatology, oceanography, and the history of science. A real tour de force. An outstanding summary not only of the science and what needs to be done but also the challenges that are a consequence of psychological and cultural baggage that threatens not only the survival of our own species but the many others we are eliminating as well. Peter Barrett, Emeritus Professor of Geology, Antarctic Research Centre, Victoria University of Wellington, New Zealand. What a remarkable and wonderful synthesis; it will be a wonderful source of paleoclimate information and insights. Christopher R. Scotese, Professor, Department of Earth and Planetary Sciences, Northwestern University, Evanston, IL, USA.

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Ice Ages Solving The Mystery Introduction

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dc conversion there are two types of regulators available linear or switching

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