



The Science of Climate Change: Understanding Global Warming and its Impacts

Global Warming The Science Of Climate Change

Frances Drake



Global Warming The Science Of Climate Change:

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. *Global Warming* Willie Soon, Centre for Studies in Risk and Regulation, 2001 Reviews the scientific literature concerning the environmental consequences of increased levels of atmospheric carbon dioxide. Climate Change Eileen Claussen, Vicki Arroyo, Cochran, Debra P. Davis, 2001-01-01 It is the greatest environmental challenge of the 21st Century. But what do we truly know about global climate change? And what can we do about it? Most of the world's top scientists agree that emissions of carbon dioxide and other greenhouse gases from human activities such as industrial processes, fossil fuel combustion, and land use changes are causing the earth to get warmer. Impacts of this warming may include damage to our coastal areas, accelerated rates of species loss, altered agricultural patterns, and increased incidences of infectious diseases. The effects of climate change and efforts to mitigate climate change could also have substantial economic ramifications. The book presents the latest research and analysis from prominent scientists, economists, academics, and policy makers, including Tom Wigley and Joel Smith, who along with other authors of the Science and Impacts chapter, explain the basic science of climate change, the growing evidence that human activities are changing our climate, and the impacts of these changes. Eileen Claussen, John Gummer, Henry Lee, and other authors of the Global Strategies chapter, who describe what nations are or are not doing to address climate change and the state of international climate talks. Robert Stavins, John Weyant, Ev Ehrlich, and other economists, who explain why economic analyses of climate policy are conducted, why the projected costs of addressing climate change vary so widely among economic models, and how

changes driven by today's economy can influence climate policy Gov Jean Shaheen and other authors of the Innovative Solutions chapter who describe what state and local governments in the United States and multinational companies are doing to monitor and curb greenhouse gas emissions and Forest Reinhardt who offers business leaders advice on steering their companies on a path that is healthy for business as well as the global climate This publication has also been published in paperback please click here for details

Fixing Climate Wallace S. Broecker, Robert Kunzig, 2008-04-15 The product of a unique collaboration between a pioneering earth scientist and an award winning science writer this volume takes an unconventional approach to the vitally important issue of global warming

The Discovery of Global Warming Spencer R. Weart, 2003 In 2001 a panel representing virtually all the world's governments and climate scientists announced that they had reached a consensus the world was warming at a rate without precedent during at least the last ten millennia and that warming was caused by the buildup of greenhouse gases from human activity The consensus itself was at least a century in the making The story of how scientists reached their conclusion by way of unexpected twists and turns and in the face of formidable intellectual financial and political obstacles is told for the first time in *The Discovery of Global Warming* Spencer R Weart lucidly explains the emerging science introduces us to the major players and shows us how the Earth's irreducibly complicated climate system was mirrored by the global scientific community that studied it Unlike familiar tales of Science Triumphant this book portrays scientists working on bits and pieces of a topic so complex that they could never achieve full certainty yet so important to human survival that provisional answers were essential Weart unsparingly depicts the conflicts and mistakes and how they sometimes led to fruitful results His book reminds us that scientists do not work in isolation but interact in crucial ways with the political system and with the general public The book not only reveals the history of global warming but also analyzes the nature of modern scientific work as it confronts the most difficult questions about the Earth's future

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Reviews of this book A soberly written synthesis of science and politics Gilbert Taylor Booklist Reviews of this book Charting the evolution and confirmation of the theory of global warming Spencer R Weart director of the Center for the History of Physics of the American Institute of Physics dissects the interwoven threads of research and reveals the political and societal subtexts that colored scientists' views and the public reception their work received Andrew C Revkin New York Times Book Review Reviews of this book It took a century for scientists to agree that gases produced by human activity were causing the world to warm up Now in an engaging book that reads like a detective story physicist Weart reports the history of global warming theory including the internal conflicts plaguing the research community and the role government has had in promoting climate studies Publishers Weekly Reviews of this book It is almost two centuries since the French mathematician Jean Baptiste Fourier discovered that the Earth was far warmer than it had any right to be given its

distance from the Sun Spencer Weart's book about how Fourier's initially inconsequential discovery finally triggered urgent debate about the future habitability of the Earth is lucid painstaking and commendably brief packing everything into 200 pages Fred Pearce The Independent Reviews of this book The Discovery of Global Warming is a well written well researched and well balanced account of the issues involved This is not a sermon for the faithful or verses from Revelation for the evangelicals but a serious summary for those who like reasoned argument Read it and be converted John Emsley Times Literary Supplement Reviews of this book This is a terrific book Perhaps the finest compliment I could give this book is to report that I intend to use it instead of my own book for my climate class The Discovery of Global Warming is more up to date better balanced historically beautifully written and not least important short and to the point I think the Intergovernmental Panel on Climate Change needs to enlist a few good historians like Weart for its next assessment Stephen H Schneider Nature Reviews of this book This short well written book by a science historian at the American Institute of Physics adds a serious voice to the overheated debate about global warming and would serve as a great starting point for anyone who wants to better understand the issue Maureen Christie American Scientist Reviews of this book I was very pleasantly surprised to find that Spencer Weart's account provides much valuable and interesting material about how the discipline developed not just from the perspective of climate science but also within the context of the field's relation to other scientific disciplines the media political trends and even 20th century history particularly the Cold War In addition Weart has done a valuable service by recording for posterity background information on some of the key discoveries and historical figures who contributed to our present understanding of the global warming problem Thomas J Crowley Science Reviews of this book Weart has done us all a service by bringing the discovery of global warming into a short compendious and persuasive book for a general readership He is especially strong on the early days and the scientific background Crispin Tickell Times Higher Education Supplement A Capricious Beast Ever since the days when he had trudged around fossil lake basins in Nevada for his doctoral thesis Wally Broecker had been interested in sudden climate shifts The reported sudden jumps of CO₂ in Greenland ice cores stimulated him to put this interest into conjunction with his oceanographic interests The result was a surprising and important calculation The key was what Broecker later described as a great conveyor belt of seawater carrying heat northward The energy carried to the neighborhood of Iceland was staggering Broecker realized nearly a third as much as the Sun sheds upon the entire North Atlantic If something were to shut down the conveyor climate would change across much of the Northern Hemisphere There was reason to believe a shutdown could happen swiftly In many regions the consequences for climate would be spectacular Broecker was foremost in taking this disagreeable news to the public In 1987 he wrote that we had been treating the greenhouse effect as a cocktail hour curiosity but now we must view it as a threat to human beings and wildlife The climate system was a capricious beast he said and we were poking it with a sharp stick I found the book enjoyable thoughtful and an excellent introduction to the history of what may be one of the most important subjects of the

next one hundred years Clark Miller University of Wisconsin The Discovery of Global Warming raises important scientific issues and topics and includes essential detail Readers should be able to follow the discussion and emerge at the end with a good understanding of how scientists have developed a consensus on global warming what it is and what issues now face human society Thomas R Dunlap Texas A M University *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 Warming** Leslie Daryl Danny Harvey,2000 *Global Warming The Hard Science* presents a comprehensive qualitatively rigorous and critical discussion of the science underlying the global warming issue The major processes in the climate system needed to understand projected human induced climatic change are presented in detail Observational systems used to monitor changes in the climate system and the ways in which the raw data are analyzed in order to produce estimates of current trends are also critically reviewed It will be an indispensable text for students wanting a comprehensive understanding of the science of global warming as well as for lecturers and researchers who want to improve their understanding of global warming research outside their own subdiscipline It is set to become the definitive textbook on the science behind the global warming issue Global warming is now seen as fundamental to the study of the environment and this text clearly emphasises not only the importance of global warming in the environmental change process but also introduces students to the science required to analyse these changes accurately The Physics of Climate Change Lawrence M. Krauss,2021-01-26 Brilliant and fundamental this is the necessary book about our prime global emergency Here you ll find the facts the processes the physics of our complex and changing climate but delivered with eloquence and urgency Lawrence Krauss writes with a clarity that transcends mere politics Prose and poetry were never better bedfellows Ian McEwan Booker Prize winning author of *Solar and Machines Like Me* The ideal book for understanding the science of global warming at once elegant rigorous and timely Elizabeth Kolbert Pulitzer Prizewinning author of *The Sixth Extinction* A brief brilliant and charming summary of what

physicists know about climate change and how they learned it Sheldon Glashow Nobel Laureate in Physics Metcalf Distinguished Professor Emeritus Boston University The distinguished scientist Lawrence Krauss turns his penetrating gaze on the most pressing existential threat facing our world climate change It is brimming with information lucidly analysed Such hope as there is lies in science and a physicist of Dr Krauss s imaginative versatility is unusually qualified to offer it Richard Dawkins author of The Blind Watchmaker and Science in the Soul Lucid and gripping this study of the most severe challenge humans have ever faced leads the reader from the basic physics of climate change to recognition of the damage that humans have already caused and on to the prospects that lie ahead if we do not change course soon Noam Chomsky Laureate Professor University of Arizona author of Internationalism or Extinction Lawrence Krauss tells the story of climate change with erudition urgency and passion It is our great good luck that one of our most brilliant scientists is also such a gifted writer This book will change the way we think about the future Jennifer Finney Boylan author of Good Boy and She s Not There Everything on climate change that I ve seen is either dumbed down and bossy or written for other climate scientists I ve been looking for a book that can let me a layperson understand the science This book does just what I was looking for It is important Penn Jillette Magician author of Presto and God No The renowned physicist Lawrence Krauss makes the science behind one of the most important issues of our time accessible to all Richard C J Somerville Distinguished Professor Emeritus Scripps Institution of Oceanography University of California San Diego Lawrence Krauss is a fine physicist a talented writer and a scientist deeply engaged with public affairs His book deserves wide readership The book s eloquent exposition of the science and the threats should enlighten all readers and motivate them to an urgent concern about our planet s future Lord Martin Rees Astronomer Royal former president of the Royal Society author of On the Future Prospects for Humanity

A Short Introduction to Climate Change Tony Eggleton,2012-12-24 A Short Introduction to Climate Change provides a clear balanced and well documented account of one of the most important issues of our time It covers developments in climate science over the past 250 years and shows that recent climate change is more than the result of natural variability It explains the difference between weather and climate by examining changes in temperature rainfall Arctic ice and ocean currents It also considers the consequences of our use of fossil fuels and discusses some of the ways to reduce further global warming Tony Eggleton avoids the use of scientific jargon to provide a reader friendly explanation of the science of climate change Concise but comprehensive and richly illustrated with a wealth of full colour figures and photographs A Short Introduction to Climate Change is essential reading for anyone who has an interest in climate science and in the future of our planet For more information please see <http://www.tonyeggleton.id.au>

Lukewarming Patrick J. Michaels,Paul C. Knappenberger,2015-10-29 If you could wave a magic wand and make one or two policy or institutional changes to brighten the U S economy s long term growth prospects what would you change and why That was the question asked to the 51 contributors to this volume These essays originally appeared in conjunction with a conference on the future of U S economic

growth held at the Cato Institute in December 2001. Brink Lindsey, Vice President for Research at the Cato Institute and editor of this volume, is pleased to share this insightful and provocative collection with a new audience. The motivation for asking that question should be clear enough to anyone who has been following the dreary economic news of the past few years. Since the Great Recession of 2008-2009, the U.S. economy has experienced the most stubbornly disappointing expansion since World War II. *Reviving Economic Growth* offers a wide-ranging exploration of policy options from an eclectic group of contributors. Think of this collection as a brainstorming session, not a blueprint for political action. By bringing together thinkers one doesn't often see in the same publication, the editor's hope is to encourage fresh thinking about the daunting challenges facing the U.S. economy and, with luck, to uncover surprising areas of agreement that can pave the way to constructive change.

The Discovery of Global Warming Spencer R. Weart, 2008-10-31. In 2001, an international panel of climate scientists announced that the world was warming at a rate without precedent during at least the last two millennia. The story of how scientists reached that conclusion was the story Weart told in *The Discovery of Global Warming*. The award-winning book is now revised and expanded to reflect the latest science. The award-winning book is now revised and expanded. In 2001, an international panel of distinguished climate scientists announced that the world was warming at a rate without precedent during at least the last two millennia and that warming was caused by the buildup of greenhouse gases from human activity. The story of how scientists reached that conclusion by way of unexpected twists and turns was the story Spencer Weart told in *The Discovery of Global Warming*. Now he brings his award-winning account up to date, revised throughout to reflect the latest science and with a new conclusion that shows how the scientific consensus caught fire among the general world public and how a new understanding of the human meaning of climate change spurred individuals and governments to action. Charting the evolution and confirmation of the theory of global warming, Weart dissects the interwoven threads of research and reveals the political and societal subtexts that colored scientists' views and the public reception their work received. Andrew C. Revkin, *New York Times Book Review*.

The Change in the Weather William Kenneth Stevens, 1999. Is something going on with the weather? A record-setting heat wave that just won't release its blistering grip. Balmy winter weeks followed by a sudden crippling snowstorm. Torrential rainfalls of rising frequency and force deluging areas untouched by flood for decades. And coast to coast, a virtually endless parade of dramatically televised weather disasters, each seemingly more extreme than the last. Examining today's headline-making questions through the authoritative lens of science and history, *New York Times* science reporter William K. Stevens's *The Change in the Weather* offers a definitive look at the science of climatic change. He introduces us to the international community of scientists leading the effort to determine whether a new era of climate has already dawned, one in which the extreme will become increasingly commonplace in an ever-warming world. From the impact of our own behavior on the delicate balance that keeps our climate hospitable to the degree to which we're too late to do anything about it, the answers and their implications could not be more

profound How did we get here How bad is it How much worse will it get How dramatically will it change life as we know it and how quickly The climate science community's newfound consensus that the earth is indeed getting warmer and human activity is at least partially at fault remains a topic of fierce debate and Stevens helps us understand both the science and politics we'll need to know in the coming years Charting the grand drama that began with the formation of the planet and its atmosphere billions of years ago Stevens reveals the patterns of extreme climate change that have always characterized earth history He explores the inextricable link between the fate of humanity and the climate from the shaping of human evolution to the devastation of entire civilizations and our efforts to make sense of these vast forces beyond our control And he both shows us these forces at work today as manifested in melting Alaskan glaciers or distressingly brown New England autumns and offers an informed speculative glimpse at what may be in store for the end of our new century As we enter the third millennium amid unfounded predictions of apocalyptic weather disaster the very real debate about our planet's fate rages on beneath the clamor An armchair scientist's guide to the science of climate past present and future *The Change in the Weather* is an eye opening and authoritative exploration of today's world and tomorrow's uncertainty **Global**

Climate Change and Human Health Jay Lemery, Kim Knowlton, Cecilia Sorensen, 2021-05-11 Learn more about the impact of global warming and climate change on human health and disease The Second Edition of *Global Climate Change and Human Health* delivers an accessible and comprehensive exploration of the rapidly accelerating and increasingly ubiquitous effects of climate change and global warming on human health and disease The distinguished and accomplished authors discuss the health impacts of the economic climatological and geopolitical effects of global warming You'll learn about The effect of extreme weather events on public health and the effects of changing meteorological conditions on human health How changes in hydrology impact the spread of waterborne disease and noninfectious waterborne threats Adaptation to and the mitigation and governance of climate change including international perspectives on climate change adaptation Perfect for students of public health medicine nursing and pharmacy *Global Climate Change and Human Health* Second Edition is an invaluable resource for anyone with an interest in the intersection of climate and human health and disease [The Warming Papers](#) David Archer, Raymond Pierrehumbert, 2011-01-18 Diese Sammlung klassischer Originalarbeiten die den Grundstein für die Vorhersage der globalen Erwärmung legten bspannt einen zeitlichen Bogen von mehr als 175 Jahren von Fourier und Arrhenius im 19. Jahrhundert bis zu Manabe und Hansen heute Die Einführungen und Kommentare von Archer und Pierrehumbert stellen die Arbeiten in ihren jeweiligen Kontext und helfen den Studenten ihr Verständnis des Fachgebiets zu vertiefen Das Buch fängt die Spannung eines topaktuellen Forschungsfeldes ein und unterstützt Naturwissenschaftler Historiker und ihre Studenten bei der Auffrischung der Prinzipien der Klimaforschung *Climate of Extremes* Patrick J. Michaels, Robert C. Balling, 2009 Michaels and Balling examine all aspects of the apocalyptic vision of climate change making headlines every day This includes news stories on hurricanes being pumped up by global warming the rapid melting of

Greenland and Antarctica causing a sea level rise of 20 feet over the next 90 years the increasing pace of global warming and a swiftly growing number of heat wave related deaths Each of these pop culture icons of climate change turns out to be short on facts and long on exaggeration People who read *Climate of Extremes* will emerge well armed against an army of extremists hawking climate change as the greatest threat ever to our society and way of life **BOOK JACKET**

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

Climate Confusion: How Global Warming Hysteria Leads to Bad Science, Pandering Politicians, and Misguided Policies That Hurt the Poor (Ea Roy W. Spencer, 2010 The current frenzy over global warming has galvanized the public and cost taxpayers billions of dollars in federal expenditures for climate research It has spawned Hollywood blockbusters and inspired major political movements It has given a high

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 Science National Research Council, Division on Earth and Life Studies, Committee on the Science of Climate Change, 2001-06-28 The warming of the Earth has been the subject of intense debate and concern for many scientists policy makers and citizens for at least the past decade *Climate Change Science An Analysis of Some Key Questions* a new report by a committee of the National Research Council characterizes the global warming trend over the last 100 years and examines what may be in store for the 21st century and the extent to which warming may be attributable to human activity

The Science of Climate Change M. R. Islam, M. M. Khan, 2019-04-19 It has long been recognized that science is the pursuit of knowledge knowledge is power and power is political However the fantasy of science being apolitical

is a hallmark legacy of the enlightenment era an era that romanticized pursuit of knowledge disconnected from the baggage of power politics and dogmatic assertions Yet while the age of information has exponentially increased our access to knowledge we can see as clearly as ever that scientific knowledge is neither apolitical nor dogma free and it certainly is not disconnected from power It is hard to imagine another era when the separation between science and politics has been this blurred as it is today At the same time it is true that no other topic than climate change has been so politically charged with one side dominating the scientific narration and branding anyone opposing the mainstream as a climate change denier and the other standing in staunch defiance that climate change exists In an age of political and scientific turmoil how can we navigate our way to coming towards a more objective understanding of the scientific issues surrounding the climate change debate This book presents the current debate of climate change as scientifically futile on both sides of the scientific and often political spectrum The climate change debate has become like obesity cancer diabetes or opioid addiction which is to say that the debate should not be if these maladies exist but rather what causes them Instead of looking for the cause and making adjustments to remove those causes from our lifestyle a combination of the capitalist drive towards mass production and a lack of identifying the roots of the problems new solutions or substitutes have been proposed as quick fixes to the problems This book identifies the root causes of climate change and shows that climate change is real and it is also preventable but that it can be reversed only if we stop introducing pollutants in the ensuing greenhouse gases The book brings back common sense and grounds scientists to the fundamentals of heat and mass transfer while at the same time disconnecting politicking and hysteria from true scientific analysis of the phenomenon of global climate

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