

The Construction of Global Warming and the Politics of Science

David Demeritt

Department of Geography, King's College London

Having outlined a theory of heterogeneous social construction, this article describes the scientific construction of climate change as a global-scale environmental problem caused by the universal physical properties of greenhouse gases. Critics have noted that this reductionist formulation serves a variety of political purposes, but instrumental and interest-based critiques of the use of scientific knowledge tend to ignore the ways in which a politics gets built into science at the upstream end. By retracing the history of climate modeling and of several scientific controversies, I unmask the tacit social and epistemic commitments implied by its specific practices. The specific scientific framing of global climate change has reinforced and been reinforced by the technocratic inclinations of global climate management. The social organization of climate change science and its articulation with the political process raise important questions about trust, uncertainty, and expertise. The article concludes with a discussion of the political brittleness of this dominant science-led and global-scale formulation of the climate change problem and the need for a more reflexive politics of climate change and of scientific knowledge based on active trust. *Key Words:* climate change, social constructionism, social studies of science.

In little more than a decade, global warming has been transformed from an obscure technical concern into a subject of widespread public anxiety and international regulatory interest. Only a dozen years separate the World Meteorological Organization's 1985 Villach conference, at which years of previous scientific research and technical debate crystallised into one of the first widely publicized warnings about an anthropogenically enhanced greenhouse effect due to rising concentrations of carbon dioxide (CO₂) and other radiatively sensitive greenhouse gases (GHGs), from the recent Kyoto Protocol to United Nations Framework Convention on Climate Change (UNFCCC), at which politicians hammered out a package of legally binding targets for reducing the GHG emissions of industrialized countries. The speed with which scientific knowledge of climate change has been translated into an international diplomatic consensus is remarkable, if not unprecedented. It is testimony to the authority of science to provide legitimacy for political action.

However, science cannot be given all the credit for spurring the rapid political response to climate change. The 1988 heat wave and drought in North America were arguably as influential in fostering public concern as any of the more formal scientific advice, such as NASA scientist James Hansen's infamous 1988 declaration to Congress that he was "99 percent sure" that global warming was already happening (quoted in Ungar 1992, 491–92; cf. Mazur and Lee 1993). The relationships among

the diverse expert and lay understandings of climate change are complex, as are their connections to climate change politics and policy-formation (Jasanoff and Wynne 1998).

A variety of powerful political interests served as midwives to the birth in the mid- to late 1980s of climate change as a pressing global environmental problem. Since the leading cause of increasing atmospheric GHG concentrations is fossil fuel consumption, which is rapidly increasing worldwide, the politics of climate change are closely intertwined with the politics of energy (Boehmer-Christiansen 1990; Levy and Egan 1998; Newell and Paterson 1998; Rowlands 2000) and the politics of development (Rajan 1997; Grubb, Vrolijk, and Brack 1999; Sachs 1999).

Political analysis has focused primarily on the powerful interests competing to set climate change policy. Political scientists and geographers have charted the fate of local climate change mitigation and energy conservation initiatives (Hinchliffe 1996; Lambright, Changnon, and Harvey 1996; Bulkeley 1997; Collier 1997) and intra-state struggles to fashion coherent national energy and environmental policy responses to global warming (Hatch 1993; O'Riordan and Jager 1996; Sewell 1996; Pleune 1997; Rajan 1997). Students of international relations have studied the geopolitics of negotiating international environmental agreements on climate change (Hecht and Tirpak 1995; Rowlands 1995; Paterson 1996; Yearley 1996; Grubb, Vrolijk, and Brack 1999). This

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The Warming Papers David Archer, Raymond Pierrehumbert, 2013-04-29 Chosen for the 2011 ASLI Choice Honorable Mention History Category for a compendium of the key scientific papers that undergird the global warming forecast Global warming is arguably the defining scientific issue of modern times but it is not widely appreciated that the foundations of our understanding were laid almost two centuries ago with the postulation of a greenhouse effect by Fourier in 1827 The sensitivity of climate to changes in atmospheric CO₂ was first estimated about one century ago and the rise in atmospheric CO₂ concentration was discovered half a century ago The fundamentals of the science underlying the forecast for human induced climate change were being published and debated long before the issue rose to public prominence in the last few decades The Warming Papers is a compendium of the classic scientific papers that constitute the foundation of the global warming forecast The paper trail ranges from Fourier and Arrhenius in the 19th Century to Manabe and Hansen in modern times Archer and Pierrehumbert provide introductions and commentary which places the papers in their context and provide students with tools to develop and extend their understanding of the subject The book captures the excitement and the uncertainty that always exist at the cutting edge of research and is invaluable reading for students of climate science scientists historians of science and others interested in climate change

Advances in Climate Change and Global Warming Research and Application: 2012 Edition, 2012-12-26 Advances in Climate Change and Global Warming Research and Application 2012 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Climate Change and Global Warming The editors have built Advances in Climate Change and Global Warming Research and Application 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Climate Change and Global Warming in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Advances in Climate Change and Global Warming Research and Application 2012 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

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.

Table of Contents Preface 1 How Could Climate Change? 2 Discovering a Possibility 3 A Delicate System 4 A Visible Threat 5 Public Warnings 6 The Erratic Beast 7 Breaking into Politics 8 The Discovery Confirmed Reflections Milestones Notes Further Reading Index 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 beautiful, well-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: Myths and Realities* , **Advances in Climate Change and Global Warming Research and Application: 2013 Edition** ,2013-06-21 Advances in Climate Change and Global Warming Research and Application 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Aerosol Forcing The editors have built Advances in Climate Change and Global Warming Research and Application 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Aerosol Forcing in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Advances in Climate Change and Global Warming Research and Application 2013 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source

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Global Warming — The Research Challenges Atsunobu Ichikawa, 2013-03-19 This monograph is the English version of Chikyu Ondanka Kenkyu no Saizensen The State of the Art of the Global Warming Research published as a report of Global Warming Research Initiative established by The Council for Science and Technology Policy CSTP the Cabinet Office Japanese Government CSTP promulgated the Promotional Strategy in Prioritized Fields in September 2001 in accordance with the Science and Technology Basic Plan now in its second term which started fiscal year 2001 and will continue through 2005 CSTP organized Research Initiatives in the field of environmental studies to identify and integrate research activities that had been separately conducted under the auspices and the directions of many ministries and agencies in the Japanese government CSTP has established five research initiatives in the field i e Global Warming Waste Free and Resource Recycling Technologies Eco Harmonious River Basin and Urban Area Regeneration Chemical Substance Risk Management and Global Water Cycle

Crime, Violence, and Global Warming John Crank, Linda Jacoby, 2015-05-20 Crime Violence and Global Warming introduces the many connections between climate change and criminal activity Conflict over natural resources can escalate to state and non state actors resulting in wars asymmetrical warfare and terrorism Crank and Jacoby apply criminological theory to each aspect of this complicated web helping readers to evaluate conflicting claims about global warming and to analyze evidence of the current and potential impact of climate change on conflict and crime Beginning with an overview of the science of global warming the authors move on to the links between climate change scarce resources and crime Their approach takes in the full scope of causes and consequences present and future in the United States and throughout the world The book concludes by looking ahead at the problem of forecasting future security implications if global warming continues or accelerates This fresh approach to the criminology of climate change challenges readers to examine all sides of this controversial question and to formulate their own analysis of our planet s future *World Scientific*

Encyclopedia Of Climate Change: Case Studies Of Climate Risk, Action, And Opportunity (In 3 Volumes) Jan W Dash, 2021-03-18 The Climate Change Encyclopedia responds to the outstanding risk survival and ethical issue of our time requiring action and providing opportunity Primary source expert authors write in a unique case study structure that enables the Encyclopedia to be approachable informational and motivational for the public The key focus areas are Climate Change and Finance Economics and Policy with many other related climate categories included The over 100 case studies provide realistic and interesting views of climate change based on authors published papers reports and books plus climate related activities of organizations and selected topics This inspiring work can enhance optimism and courage to act urgently and persistently on climate change with foresight for a livable future For more information on the list of contributors please refer to <https://www.worldscientific.com/page/encyclopedia-of-climate-change> Related Link s *Climate Change Research S.*

Zwerver, R.S.A.R. Rompaey, M.T.J. Kok, M.M. Berk, 1995-11-20 Climate change is more and more considered to be a major

global environmental risk The above mentioned conference was the concluding part of a new programme organized in The Netherlands with a view to stimulating participation of Dutch scientists in the international research effort concerning the problem of climate change The proceedings of the Maastricht Conference on Climate Change Research cover a wide range of subjects including key note papers of internationally leading scientists on relevant aspects of the climate problem assessments of NRP research on the climate system the causes of potential change in the system the possible effects and consequences of climate change and alternative responses including technological and or social that are considered within the context of sustainable development short papers of the NRP and related projects with final conclusions per project This book will be of value to anyone professionally interested in the various aspects of climate change research and policy

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

Global Warming Natalie Goldstein, 2009 It is an undisputed fact that the Earth's climate is changing and although the scientific community continues to debate the exact correlation between human activity and climatic change there is now almost universal consensus that humankind directly impacts Earth's climate an idea referred to as global warming

Vice President Al Gore's Perspective on Global Warming United States. Congress. Senate. Committee on Environment and Public Works, 2011

The Great Global Warming Blunder Roy W Spencer, 2012-08-28 The Great Global Warming Blunder unveils new evidence from major scientific findings that explode the conventional wisdom on climate change and reshape the global warming debate as we know it Roy W Spencer a former senior NASA climatologist reveals how climate researchers have mistaken cause and effect when analyzing cloud behavior and have been duped by Mother Nature into believing the Earth's climate system is far more sensitive to human activities and carbon dioxide than it really is In fact Spencer presents astonishing new evidence that recent warming is not the fault of humans but the result of chaotic internal natural cycles that have been causing periods of warming and cooling for millennia More carbon dioxide in the atmosphere is not necessarily to be feared The Great Global Warming Blunder explains that burning of fossil fuels may actually be beneficial for life on Earth As group think behavior and misguided global warming

policy proposals threaten the lives of millions of the world's poorest most vulnerable citizens The Great Global Warming Blunder is a scintillating exposé and much needed call for debate **Four Degrees of Global Warming** Peter Christoff, 2013-10-15 At Copenhagen in December 2009 the international community agreed to limit global warming to below two degrees Celsius to avoid the worst impacts of human induced climate change However climate scientists agree that current national emissions targets collectively will still not achieve this goal Instead the ambition gap between climate science and climate policy is likely to lead to average global warming of around four degrees Celsius by or before 2100 If a Four Degree World is the de facto goal of policy we urgently need to understand what this world might look like Four Degrees of Global Warming Australia in a Hot World outlines the expected consequences of this world for Australia and its region Its contributors include many of Australia's most eminent and internationally recognized climate scientists climate policy makers and policy analysts They provide an accessible detailed dramatic and disturbing examination of the likely impacts of a Four Degree World on Australia's social economic and ecological systems The book offers policy makers politicians students and anyone interested climate change access to the most recent research on potential Australian impacts of global warming and possible responses Global Warming John T. Houghton, 1997-09-18 The best briefing on global warming the student or interested general reader could wish for **The Scientific Attitude** Lee McIntyre, 2019-05-07 An argument that what makes science distinctive is its emphasis on evidence and scientists willingness to change theories on the basis of new evidence Attacks on science have become commonplace Claims that climate change isn't settled science that evolution is only a theory and that scientists are conspiring to keep the truth about vaccines from the public are staples of some politicians rhetorical repertoire Defenders of science often point to its discoveries penicillin relativity without explaining exactly why scientific claims are superior In this book Lee McIntyre argues that what distinguishes science from its rivals is what he calls the scientific attitude caring about evidence and being willing to change theories on the basis of new evidence The history of science is littered with theories that were scientific but turned out to be wrong the scientific attitude reveals why even a failed theory can help us to understand what is special about science McIntyre offers examples that illustrate both scientific success a reduction in childhood fever in the nineteenth century and failure the flawed discovery of cold fusion in the twentieth century He describes the transformation of medicine from a practice based largely on hunches into a science based on evidence considers scientific fraud examines the positions of ideology driven denialists pseudoscientists and skeptics who reject scientific findings and argues that social science no less than natural science should embrace the scientific attitude McIntyre argues that the scientific attitude the grounding of science in evidence offers a uniquely powerful tool in the defense of science Unstoppable Global Warming Fred Singer, Dennis Avery, 2006-09-13 Singer and Avery present in popular language supported by in depth scientific evidence the compelling concept that global temperatures have been rising mostly or entirely because of a natural cycle Using historic data from two millennia of

recorded history combined with the natural physical records found in ice cores seabed sediment cave stalagmites and tree rings Unstoppable Global Warming argues that the 1 500 year solar driven cycle that has always controlled the earth's climate remains the driving force in the current warming trend Trillions of dollars spent on reducing fossil fuel use would have no effect on today's rising temperatures The public policy key Singer and Avery propose is adaptation not fruitless attempts at prevention Further they offer convincing evidence that civilization's most successful eras have coincided with the cycle's warmest peaks With the added benefit of modern technology humanity can not only survive global climate change but thrive

Bud's Easy Research Paper Computer Manual Alvin Baron,2015-09-04 How to Book on Writing Research Papers for High School and College Keywords Research Paper Writing Thesis Bibliography Search First Draft Term Papers MLA APA Turabian Language Grammar Energy Solutions to Combat Global Warming XinRong Zhang,Ibrahim Dincer,2016-10-17 This book gathers an in depth collection of 45 selected papers presented at the Global Conference on Global Warming 2014 in Beijing China covering a broad variety of topics from the main principles of thermodynamics and their role in design analysis and the improvements in performance of energy systems to the potential impact of global warming on human health and wellbeing Given energy production's role in contributing to global warming and climate change this work provides solutions to global warming from the point of view of energy Incorporating multi disciplinary expertise and approaches it provides a platform for the analysis of new developments in the area of global warming and climate change as well as potential energy solutions including renewable energy energy efficiency energy storage hydrogen production CO2 capture and environmental impact assessment The research and analysis presented herein will benefit international scientists researchers engineers policymakers and all others with an interest in global warming and its potential solutions

Global Warming and East Asia Paul G. Harris,2004-02-24 Global Warming and East Asia analyses the domestic politics foreign policy and international relations of climate change in East and Southeast Asia The countries of this important region are often disproportionately affected by climate change and as they expand and develop their contribution to the problem grows The contributors investigate the increasingly widespread and disparate efforts to address global warming at international national and local levels and in so doing increase our understanding of a region vital to mitigating and coping with climate change This unique volume includes in depth studies of China and Japan two of the most important countries in East Asia with regard to global warming and examines the role of East and Southeast Asian countries such as Indonesia and the Philippines in combating the problem

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Table of Contents Research Papers On Global Warming

1. Understanding the eBook Research Papers On Global Warming
 - The Rise of Digital Reading Research Papers On Global Warming
 - Advantages of eBooks Over Traditional Books
2. Identifying Research Papers On Global Warming
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Research Papers On Global Warming
 - User-Friendly Interface
4. Exploring eBook Recommendations from Research Papers On Global Warming
 - Personalized Recommendations
 - Research Papers On Global Warming User Reviews and Ratings
 - Research Papers On Global Warming and Bestseller Lists
5. Accessing Research Papers On Global Warming Free and Paid eBooks
 - Research Papers On Global Warming Public Domain eBooks
 - Research Papers On Global Warming eBook Subscription Services
 - Research Papers On Global Warming Budget-Friendly Options
6. Navigating Research Papers On Global Warming eBook Formats

- ePub, PDF, MOBI, and More
- Research Papers On Global Warming Compatibility with Devices
- Research Papers On Global Warming Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Research Papers On Global Warming
 - Highlighting and Note-Taking Research Papers On Global Warming
 - Interactive Elements Research Papers On Global Warming
- 8. Staying Engaged with Research Papers On Global Warming
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Research Papers On Global Warming
- 9. Balancing eBooks and Physical Books Research Papers On Global Warming
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Research Papers On Global Warming
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Research Papers On Global Warming
 - Setting Reading Goals Research Papers On Global Warming
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Research Papers On Global Warming
 - Fact-Checking eBook Content of Research Papers On Global Warming
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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