



# Plows, Plagues, and Petroleum

how humans  
took control of  
climate

*with a new afterword  
by the author*

WILLIAM F. RUDDIMAN

# Plows Plagues And Petroleum How Humans Took Control Of Climate

**Marlon Henkel**



## **Plows Plagues And Petroleum How Humans Took Control Of Climate:**

**Plows, Plagues, and Petroleum** William F. Ruddiman, 2016-10-04 The impact on climate from 200 years of industrial development is an everyday fact of life but did humankind's active involvement in climate change really begin with the industrial revolution as commonly believed Plows Plagues and Petroleum has sparked lively scientific debate since it was first published arguing that humans have actually been changing the climate for some 8 000 years as a result of the earlier discovery of agriculture The Ruddiman Hypothesis will spark intense debate We learn that the impact of farming on greenhouse gas levels thousands of years before the industrial revolution kept our planet notably warmer than if natural climate cycles had prevailed quite possibly forestalling a new ice age Plows Plagues and Petroleum is the first book to trace the full historical sweep of human interaction with Earth's climate Ruddiman takes us through three broad stages of human history when nature was in control when humans began to take control discovering agriculture and affecting climate through carbon dioxide and methane emissions and finally the more recent human impact on climate change Along the way he raises the fascinating possibility that plagues by depleting human populations also affected reforestation and thus climate as suggested by dips in greenhouse gases when major pandemics have occurred While our massive usage of fossil fuels has certainly contributed to modern climate change Ruddiman shows that industrial growth is only part of the picture The book concludes by looking to the future and critiquing the impact of special interest money on the global warming debate In the afterword Ruddiman explores the main challenges posed to his hypothesis and shows how recent investigations and findings ultimately strengthen the book's original claims

**Living on the Shores of Hawaii** Charles H. Fletcher, Robynne Boyd, William J. Neal, Virginia Tice, 2010-12-31 Rarely a day goes by in Hawaii without the media reporting on environmental issues stemming from public debate Will the proposed housing development block my access to the beach Is the rising sea level going to cause flooding where I live How does overfishing damage the reef Is the water clean where I surf Living on the Shores of Hawaii discusses the paradox of environmental loss under a management system considered by many to be one of the most stringent in the nation It reviews a wide range of environmental concerns in Hawaii with an eye toward resolution by focusing on place based management a theme consistent with and borrowing from the Hawaiian ahupua'a system After describing a typical situation in Hawaii where a sandy beach is lost because a seawall has been built to protect a poorly sited home the authors step back in time to trace land use practices before and after the arrival of Westerners and the increased tempo of destruction following the latter They go on to discuss volcanoes and the risk of placing homes in locations vulnerable to natural hazards and the potential dangers of earthquakes and tsunamis to a complacent public Water issues including scarcity flooding and pollution are surveyed as well as climate change and the possible outcomes of projected sea rise for Hawaii The authors explain coastal erosion and beach loss and the problems of overfishing and ocean acidification Later chapters assess residents' risks to hurricanes offering mitigation techniques and provide a summary and some

management conclusions As tensions increase because of conflicting standards misunderstandings and contradictory ideals and actions we put our economy and quality of life at risk Sound decision making begins with asking the right questions This book addresses these questions within the context of sustainability and thus their influence on the future of Hawai i *The Oxford Handbook of Environmental History* Andrew C. Isenberg, 2017 The Oxford Handbook of Environmental History draws on a wealth of new scholarship to offer diverse perspectives on the state of the field Paleoclimatology Colin P.

Summerhayes, 2020-06-10 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 **First Peoples in a New World**

David J. Meltzer, 2021-10-07 Over 15 000 years ago a band of hunter gatherers became the first people to set foot in the Americas They soon found themselves in a world rich in plants and animals but also a world still shivering itself out of the coldest depths of the Ice Age The movement of those first Americans was one of the greatest journeys undertaken by ancient peoples In this book David Meltzer explores the world of Ice Age Americans highlighting genetic archaeological and geological evidence that has revolutionized our understanding of their origins antiquity and adaptation to climate and

environmental change This fully updated edition integrates the most recent scientific discoveries including the ancient genome revolution and human evolutionary and population history Written for a broad audience the book can serve as the primary text in courses on North American Archaeology Ice Age Environments and Human evolution and prehistory

**Global Warming and the Political Ecology of Health** Hans Baer, Merrill Singer, 2016-09-17 In this groundbreaking global analysis of the relationship between climate change and human health Hans Baer and Merrill Singer inventory and critically analyze the diversity of significant and sometimes devastating health implications of global warming Using a range of theoretical tools from anthropology medicine and environmental sciences they present ecosyndemics as a new paradigm for understanding the relationship between environmental change and disease They also go beyond the traditional concept of disease to examine changes in subsistence and settlement patterns land use and lifeways throwing the sociopolitical and economic dimensions of climate change into stark relief Revealing the systemic structures of inequality underlying global warming they also issue a call to action arguing that fundamental changes in the world system are essential to the mitigation of an array of emerging health crises link to anthropogenic climate and environmental change

*Energy Flows, Material Cycles and Global Development* Georg Schaub, Thomas Turek, 2016-06-27 This book starts by discussing the global flows of energy and materials and changes caused by human activities It then examines the limitations of anthropogenic energy and material flows and the consequences for the development of human society Different scenarios for lifestyle patterns are correlated with the future development of the global energy supply and climate As it provides a process engineering approach to the Earth system and global development readers should have a basic understanding of mathematics physics chemistry and biology This second edition also reflects new developments since the original publication increases in anthropogenic energy and material flows due to significant economic growth in certain parts of the world and recent changes in energy policy and technological development countries such as Germany the Energiewende or transition to renewable energy sources where goals have been defined and measures initiated for a future energy supply without fossil and nuclear sources As such it offers a valuable resource for undergraduate and graduate students as well as practicing experts alike

**The Political Ecology of Climate Change Adaptation** Marcus Taylor, 2014-11-17 This book provides the first systematic critique of the concept of climate change adaptation within the field of international development Drawing on a reworked political ecology framework it argues that climate is not something out there that we adapt to Instead it is part of the social and biophysical forces through which our lived environments are actively yet unevenly produced From this original foundation the book challenges us to rethink the concepts of climate change vulnerability resilience and adaptive capacity in transformed ways With case studies drawn from Pakistan India and Mongolia it demonstrates concretely how climatic change emerges as a dynamic force in the ongoing transformation of contested rural landscapes In crafting this synthesis the book recalibrates the frameworks we use to envisage climatic change in the context of contemporary debates over development

livelihoods and poverty With its unique theoretical contribution and case study material this book will appeal to researchers and students in environmental studies sociology geography politics and development studies *US Infrastructure* Aman Khan, Klaus Becker, 2019-09-17 This book presents an in depth look at US infrastructure and its challenges in the 21st century While infrastructure has received considerable attention in recent years much of the discussion has concentrated on physical economic or noneconomic conditions The Trump administration has heightened interest in the topic promising infrastructure spending during his tenure yet little demonstrable progress has been made This book brings together a multi disciplinary perspective structural technological economic financial political planning and policy that has been largely absent in discussions on the subject to provide a clearer and broader understanding of the challenges facing US infrastructure The book is divided into three parts Part I looks at the challenges from a structural technological and sustainability perspective Part II from an economic productivity and finance perspective and Part III from an institutional security and political perspective Written primarily for policy makers managers and administrators in public and private organizations as well as individuals and academics with an interest in the future of US infrastructure this book provides an in depth analysis of the US infrastructure problem its causes and consequences and suggests timely specific measures that may be taken at the state local and federal levels to improve and better secure our roads transit public buildings economy and technology **The Oxford Handbook of Neolithic Europe** Chris Fowler, Jan Harding, Daniela Hofmann, 2015-03-26 The Neolithic a period in which the first sedentary agrarian communities were established across much of Europe has been a key topic of archaeological research for over a century However the variety of evidence across Europe the range of languages in which research is carried out and the way research traditions in different countries have developed makes it very difficult for both students and specialists to gain an overview of continent wide trends The Oxford Handbook of Neolithic Europe provides the first comprehensive geographically extensive thematic overview of the European Neolithic from Iberia to Russia and from Norway to Malta offering both a general introduction and a clear exploration of key issues and current debates surrounding evidence and interpretation Chapters written by leading experts in the field examine topics such as the movement of plants animals ideas and people including recent trends in the application of genetics and isotope analyses cultural change from the first appearance of farming to the first metal artefacts domestic architecture subsistence material culture monuments and burial and other treatments of the dead In doing so the volume also considers the history of research and sets out agendas and themes for future work in the field Relict Species Jan Christian Habel, Thorsten Assmann, 2009-12-03 Mankind has evolved both genetically and culturally to become a most successful and dominant species But we are now so numerous and our technology is so p erful that we are having major effects on the planet its environment and the b sphere For some years prophets have warned of the possible detrimental consequences of our activities such as pollution deforestation and overfishing and recently it has become clear that we are even changing the atmosphere e g ozone carbon dioxide This is

worrying since the planet's life systems are involved and dependent on its functioning. Current climate change/global warming is one recognised consequence of this larger problem. To face this major challenge we will need the research and advice of many disciplines: Physics, Chemistry, Earth Sciences, Biology and Sociology, and particularly the commitment of wise politicians such as US Senator Al Gore. An important aspect of this global problem that has been researched for several decades is the loss of species and the impoverishment of our ecosystems and hence their ability to sustain themselves and more particularly us. Through evolutionary time new species have been generated and some have gone extinct. Such extinction and regeneration are moulded by changes in the earth's crust, atmosphere and resultant climate. Some extinctions have been massive, particularly those associated with catastrophic meteoric impacts like the end of the Cretaceous Period 65 Mya.

Environmental Problems of the Greeks and Romans J. Donald Hughes, 2014-02-15 How did ancient societies change the environment and how do their actions continue to affect us today? In this dramatically revised and expanded second edition of the work entitled *Pan's Travail* J. Donald Hughes examines the environmental history of the classical period and argues that the decline of ancient civilizations resulted in part from their exploitation of the natural world. Focusing on Greece and Rome as well as areas subject to their influences, Hughes offers a detailed look at the impact of humans and their technologies on the ecology of the Mediterranean basin. Evidence of deforestation in ancient Greece, the remains of Roman aqueducts and mines, and paintings on centuries-old pottery that depict agricultural activities document ancient actions that resulted in detrimental consequences to the environment. Hughes compares the ancient world's environmental problems to other persistent social problems and discusses attitudes toward nature expressed in Greek and Latin literature. In addition to extensive revisions based on the latest research, this new edition includes photographs from Hughes's worldwide excursions, a new chapter on warfare and the environment, and an updated bibliography.

*Water, Weather and the Mountain West* Robert William Sandford, 2011-02-01 Growing populations, increasing industrial use, and heavy agricultural demand are beginning to tax water supplies in many regions of Canada. Since many rivers are already fully allocated to numerous uses, future economic and social development will depend upon how much we know about our surface and ground water resources and how effectively we manage them, especially in the face of climate change. The message to take home from this eloquent book is that it is time to dispel the myth of limitless abundance of water in Canada and throughout North America. We all need to be mindful that though our technologically sophisticated society is largely fuelled and lubricated by refined petroleum, it ultimately runs on plain water. In his conclusion to this authoritative book, Robert Sandford, chair of Canada's United Nations Water for Life Decade, offers a realistic picture of the various issues and threats related to the future availability and quality of fresh water in Canada.

**Contemporary Approaches to Geography Volume 3: Environmental Geography**, 1999

*The Origins of the Modern World* Robert B. Marks, 2019-07-05 This clearly written and engrossing book presents a global narrative of the origins of the modern world from 1400 to the present. Unlike most studies which

assume that the rise of the West is the story of the coming of the modern world this history drawing upon new scholarship on Asia Africa and the New World and upon the maturing field of environmental history constructs a story in which those parts of the world play major roles including their impacts on the environment Robert B Marks defines the modern world as one marked by industry the nation state interstate warfare a large and growing gap between the wealthiest and poorest parts of the world increasing inequality within the wealthiest industrialized countries and an escape from the environmental constraints of the biological old regime He explains its origins by emphasizing contingencies such as the conquest of the New World the broad comparability of the most advanced regions in China India and Europe the reasons why England was able to escape from common ecological constraints facing all of those regions by the end of the eighteenth century a conjuncture of human and natural forces that solidified a gap between the industrialized and non industrialized parts of the world the mounting environmental crisis that defines the modern world and the ways in which the forces of globalization stress the economic and political underpinnings of the modern world Now in a new edition that brings the saga of the modern world to the present in an environmental context the book considers how and why the United States emerged as a world power in the twentieth century and became the sole superpower by the twenty first century and why the changed relationship of humans to the environment likely will be the hallmark of the modern era the Anthropocene Once again arguing that the US rise to global hegemon was contingent not inevitable Marks also points to the resurgence of Asia and the vastly changed relationship of humans to the environment that may in the long run overshadow any political and economic milestones of the past hundred years A Companion Website at <https://textbooks.rowman.com/marks4e> offers a student study guide that provides a concise summary main points key terms discussion questions map exercises and recommended websites It also offers a range of teaching materials including a test bank and a list of suggested primary and secondary readings

**Handbook of Archaeological Sciences** A. Mark Pollard, Ruth Ann Armitage, Cheryl A. Makarewicz, 2023-02-09 HANDBOOK OF ARCHAEOLOGICAL SCIENCES A modern and comprehensive introduction to methods and techniques in archaeology In the newly revised Second Edition of the Handbook of Archaeological Sciences a team of more than 100 researchers delivers a comprehensive and accessible overview of modern methods used in the archaeological sciences The book covers all relevant approaches to obtaining and analyzing archaeological data including dating methods quaternary paleoenvironments human bioarchaeology biomolecular archaeology and archaeogenetics resource exploitation archaeological prospection and assessing the decay and conservation of specimens Overview chapters introduce readers to the relevance of each area followed by contributions from leading experts that provide detailed technical knowledge and application examples Readers will also find A thorough introduction to human bioarchaeology including hominin evolution and paleopathology The use of biomolecular analysis to characterize past environments Novel approaches to the analysis of archaeological materials that shed new light on early human lifestyles and societies In depth explorations of the statistical and computational methods



relevant to archaeology Perfect for graduate and advanced undergraduate students of archaeology the Handbook of Archaeological Sciences will also earn a prominent place in the libraries of researchers and professionals with an interest in the geological biological and genetic basis of archaeological studies *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

**21st Century Homestead: Sustainable Agriculture II: Farming and Natural Resources** Marlon Henkel, 2015-02-22 21st Century Homestead Sustainable Agriculture II contains the second part of everything you need to stay up to date on sustainable agriculture farming and natural resources

The SAGE Encyclopedia of Economics and Society Frederick F. Wherry, Juliet B. Schor, Consulting Editor, 2015-09-01 Economics is the nexus and engine that runs society affecting societal well being raising standards of living when economies prosper or lowering citizens through class structures when economies perform poorly Our society only has to witness the booms and busts of the past decade to see how economics profoundly affects the cores of societies around the world From a household budget to international trade economics ranges from the micro to the macro level It relates to a breadth of social science disciplines that help describe the content of the proposed encyclopedia which will explicitly approach economics through varied disciplinary lenses Although there are encyclopedias of covering economics especially classic economic theory and history the SAGE Encyclopedia of Economics and Society emphasizes the contemporary world contemporary issues and society Features 4 volumes with approximately 800 signed articles ranging from 1 000 to 5 000 words each are presented in a choice of print or electronic editions Organized A to Z with a thematic Reader s Guide in the front matter groups related entries Articles conclude with References Future Readings to guide students to the next step on their research journeys Cross references between and among articles combine with a thorough Index and the Reader s Guide to enhance search and browse in the electronic version Pedagogical elements include a Chronology of Economics and Society Resource Guide and Glossary This academic multi author reference work will serve as a general non technical resource for students and researchers within social science programs who seek to better understand economics through a contemporary lens

**The Anthropocenic Turn** GABRIELE DÜRBECK, PHILIP HÜPKES, 2020-03-12 This interdisciplinary volume discusses whether the increasing salience of the Anthropocene concept in the humanities and the social sciences constitutes an Anthropocenic turn The Anthropocene discourse creates novel conceptual configurations and enables scholars to re negotiate and re contextualize long established paradigms premises theories and methodologies These innovative constellations stimulate fresh research in many areas of thought and practice The contributors to this volume respond to the proposition of an Anthropocene turn from the perspective of diverse research fields including history of science philosophy environmental humanities and political science as well as literary art and media studies Altogether the

collection reveals to which extent the Anthropocene concept challenges deep seated assumptions across disciplines It invites readers to explore the wealth of scholarly perspectives on the Anthropocene as well as unexpected inter and transdisciplinary connections

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