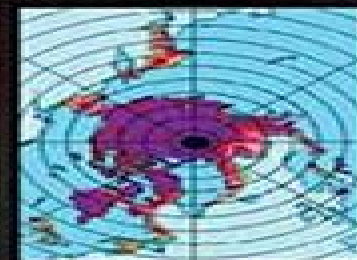
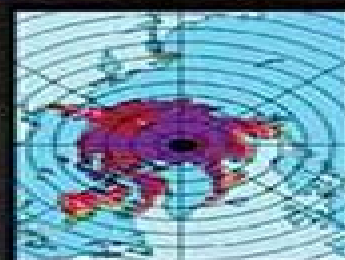
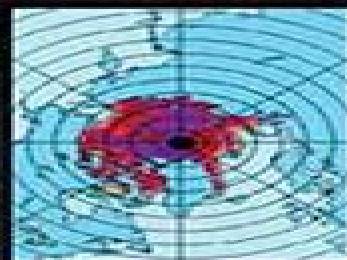
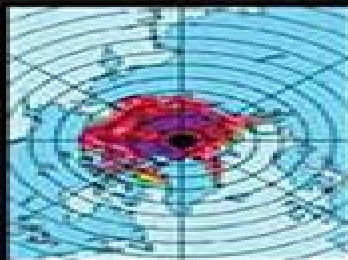
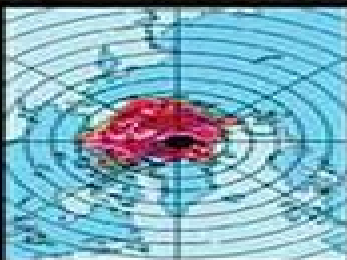


THE WHALE
AND THE
SUPERCOMPUTER

ON THE NORTHERN FRONT OF CLIMATE CHANGE



C H A R L E S W O H L F O R T H

The Whale And The Supercomputer On The Northern Front Of Climate Change

Doreen Cunningham



The Whale And The Supercomputer On The Northern Front Of Climate Change:

The Whale and the Supercomputer Charles Wohlforth, 2025-10-16 In *The Whale and the Supercomputer* scientists and natives wrestle with our changing climate in the land where it has hit first and hardest. A traditional Eskimo whale hunting party races to shore near Barrow, Alaska, their comrades trapped on a floe drifting out to sea as ice that should be solid this time of year gives way. Elsewhere, a team of scientists transverses the tundra sleeping in tents, surviving on frozen chocolate and measuring the snow every ten kilometers in a quest to understand the effects of albedo, the snow's reflective ability to cool the earth beneath it. Climate change isn't an abstraction in the far North. It is a reality that has already dramatically altered daily life, especially that of the native peoples who still live largely off the land and sea. Because nature shows her footprints so plainly here, the region is also a lure for scientists intent on comprehending the complexities of climate change. In this gripping account, Charles Wohlforth follows the two groups as they navigate a radically shifting landscape. The scientists attempt to decipher its smallest elements and to derive from them a set of abstract laws and models. The natives draw on uncannily accurate traditional knowledge borne of long experience living close to the land. Even as they see the same things, a Native elder watches weather coming through too fast to predict, a climatologist notes an increased frequency of cyclonic systems. The two cultures struggle to reconcile their vastly different ways of comprehending the environment. With grace, clarity, and a sense of adventure, Wohlforth, a lifelong Alaskan, illuminates both ways of seeing a world in flux and, in the process, helps us to navigate a way forward as climate change reaches us all.

The Whale and the Supercomputer Charles P. Wohlforth, 2004

Historical Dictionary of the Inuit Pamela R. Stern, 2013-09-26 The Inuit do not represent a very large population, only 160,000 or so, spread over a very large portion of the Arctic region and located in four different countries. Although they are a people, there are many variations from one group to the next, and any study of them must consider both similarities and differences. *The Historical Dictionary of the Inuit* introduces us to the Inuit as they actually are, and not as they have been traditionally pictured, and some would still like to see them looking after their traditional chores and engaged in time-honored practices, but rather as a modern people trying to shape their worlds in their own interest. This second edition includes an updated chronology as well as an introduction to provide a broader view of who the Inuit are, where they live, and what they do. But it is the dictionary section that is most interesting, with many new informative entries on persons, places, events, and institutions, shedding light not only on the culture but also on the society, economy, and politics. For those seeking further information, there is a considerably expanded bibliography. This book is an excellent access point for students, researchers, and anyone wanting to know more about the Inuit.

Global Warming 101 Bruce E. Johansen, 2008-06-30 The accelerating pace of global warming is provoking anxiety that the Earth is reaching an ominous threshold, a point of no return. Within a decade or two, various feedbacks may take greenhouse warming past any human ability to contain or reverse it. Carbon dioxide levels in the atmosphere are rising rapidly, fed by increasing fossil fuel use.

world wide melting permafrost slash and burn agriculture in Indonesia and Brazil increasing wildfires as well as rapid industrialization using dirty coal in China and India Global warming may well become the most urgent problem the world faces during the 21st Century Natural variations are no longer the major contribution or forcing in Earth's climate Human contributions became the major factor about 1950 This book has been prepared as a reference for high school students but it also will be useful for anyone who wants a compact plain spoken basic guide to the science of global warming Global Warming 101 begins with an examination of basic issues followed by important controversies in the field The book then describes scientific issues related to melting ice rising seas and effects on plants and animals as well as human health Global Warming 101 concludes with consideration of possible solutions Global Warming 101 combines a survey of the science of global warming with reporting from around the world from sinking Pacific islands and thawing Arctic permafrost which indicate that significant global warming already has begun

The Two Degrees Dangerous Limit for Climate Change Christopher Shaw, 2015-09-16 This book is about the history present and future of one the most important policy ideas of the modern era that there is a single global dangerous amount of climate change That dangerous amount of climate change is imagined as two degrees centigrade of global warming above the pre industrial average Though the two degree idea is based on the value system of elite policy actors it is been constructed in public discourses as scientific fact This false representation of the concept undermines opportunities for positive public engagement with the climate policy debate yet it is strong public engagement which is a recurring aspiration of climate policy discourses and is considered essential if climate mitigation strategies are to work Alongside a critical analysis of how the idea of a single dangerous limit has shaped our understanding of what sort of problem climate change is the book explains how the public have been kept out of that decision making process the implications of this marginalisation for climate policy and why the dangerous limit idea is undermining our ability to mitigate climate change The book concludes by exploring possibilities for a deliberation about the future of the two degree limit which allows for public participation in the decision making process This book illustrates why at this critical juncture in the climate policy debate the two degree limit idea has failed to achieve any of the policy goals intended This is the first book dedicated to questioning the issue of the two degree limit within a social science framework and should be of interest to students and scholars of environmental policy and politics climate change communication and science technology and society studies

Tales of an Ecotourist Mike Gunter Jr., 2017-11-21 Crossing the far corners of the globe Tales of an Ecotourist showcases travel from the hot and humid Amazon jungle to the frozen but dry Antarctic as a simple yet spellbinding lens to better understand the complex issue of climate change At its core climate change is an issue few truly understand in large part due to its dizzying array of scientific economic cultural social and political variables Using both keen humor and memorable anecdotes while weaving respected scientific studies along the way Mike Gunter Jr transports the reader to five famous ecodestinations from the Galapagos Islands to the Great Barrier Reef revealing firsthand the increasing threats of

climate change Part travelogue part current events expos with a healthy dose of history ecology and politics these tales of ecoadventure tackle such obstacles head on while fleshing out much needed personal context to perhaps society's greatest threat of all

Infowhelm Heather Houser, 2020-06-16 How do artists and writers engage with environmental knowledge in the face of overwhelming information about catastrophe What kinds of knowledge do the arts produce when addressing climate change extinction and other environmental emergencies What happens to scientific data when it becomes art In *Infowhelm* Heather Houser explores the ways contemporary art manages environmental knowledge in an age of climate crisis and information overload Houser argues that the infowhelm a state of abundant yet contested scientific information is an unexpectedly resonant resource for environmental artists seeking to go beyond communicating stories about crises *Infowhelm* analyzes how artists transform the techniques of the sciences into aesthetic material repurposing data on everything from butterfly migration to oil spills and experimenting with data collection classification and remote sensing Houser traces how artists ranging from novelist Barbara Kingsolver to digital memorialist Maya Lin rework knowledge traditions native to the sciences entangling data with embodiment quantification with speculation precision with ambiguity and observation with feeling Their works provide new ways of understanding environmental change while also questioning traditional distinctions between types of knowledge Bridging the environmental humanities digital media studies and science and technology studies this timely book reveals the importance of artistic medium and form to understanding environmental issues and challenges our assumptions about how people arrive at and respond to environmental knowledge

Global food security: ethical and legal challenges Carlos M. Romeo Casabona, Leire Escajedo San Epifanio, Aitziber Emaldi Cirión, 2023-09-04 Food security will exist when all people at all times have physical and economic access to sufficient safe and nutritious food to meet their dietary needs and food preferences for an active and healthy life as stated in the Rome Declaration in 1996 Given the dimension of the current global food crisis food security means adopting effective and specific actions at individual household national regional and global levels Food security invites us to reflect upon ethical principles like human equity justice between current and future generations respect for human dignity and sustainable food production We strive to maintain our basic ethical convictions and engage in societal debates about other important values While we do this we may have to change our ways of life and learn to create new priorities in the face of global responsibility Science and technology are key tools to reach the Millenium Goals providing both society and decision makers alike with relevant information and new options within an ethical framework The contributions found in this publication bring together the perspectives of a diverse group of authors Coming from the academic world the public sector and non governmental organisations NGOs they provide the latest views on Global food security ethical and legal challenges

Environmental Racism in the United States and Canada Bruce E. Johansen, 2020-04-14 From Flint Michigan to Standing Rock North Dakota minorities have found themselves losing the battle for clean resources and a healthy environment This book provides

a modern history of such environmental injustices in the United States and Canada From the 19th century extermination of the buffalo in the American West to Alaska s Project Chariot a Cold War initiative that planned to use atomic bombs to blast out a harbor on Eskimo land to the struggle for recovery and justice in Puerto Rico following Hurricane Maria in 2017 this book provides readers with an enhanced understanding of how poor and minority people are affected by natural and manmade environmental crises Written for students as well as the general reader with an interest in social justice and environmental issues this book traces the relationship between environmental discrimination race and class through a comprehensive case history of environmental injustices Environmental Racism in the United States and Canada Seeking Justice and Sustainability includes 50 such case studies that range from local to national to international crises

Our Story in Many Voices Charles Wohlforth,2025-05-15 Our Story in Many Voices orients visitors to the museum explains the objects and explores the changing history and interpretation of Alaska s story in the many voices of its telling *The Fate of Nature* Charles Wohlforth,2025-10-16 What capacity for good lies in the hidden depths of people Starting with this question award winning author Charles Wohlforth sets forth on a wide ranging exploration of our relationship with the world In *The Fate of Nature* he draws on science spirituality history economics and personal stories to reveal answers about the future of that relationship There is no better place to witness the highs and lows of our treatment of the natural world than the vast wilds rocky coasts and shifting settlements of Alaska Since the first encounter between Captain Cook s crew and the Alaskan Natives in 1778 there have been countless struggles between people who have had different plans for the region Some have hoped to preserve Alaska as they found it while others aimed to create something new in its place Incidents such as the Exxon Valdez oil spill may seem like cause for despair In the face of such profound tragedies Charles Wohlforth has found heartening developments in the science of human altruism This new understanding of what causes humans to cooperate and act conscientiously may be the first step toward taking the actions necessary to preserve an environment that has already been altered drastically in our lifetime A clear eyed original work of research reportage and philosophical reflections *The Fate of Nature* gives us a chance to change the way we think about our place in society and the world at large

The Future History of the Arctic Charles Emmerson,2010-03-02 Emmerson provides a vivid visionary exploration of the Arctic the forces that have shaped it and its emergence onto the main stage of global affairs *Issuing Annual Quotas to the Alaska Eskimo Whaling Commission for a Subsistence Hunt on Bowhead Whales for the Years 2008 Through 2012* ,2008

Resource Devastation on Native American Lands Bruce E. Johansen,2023-02-09 This book focuses on the toxic legacy of Native North America which is pervasive but largely invisible to most non Native peoples Many toxic sites are located in out of the way rural areas largely forgotten by the majority of America but which nonetheless have supplied its industries with the rudiments of manufacturing for the better part of a century before being closed and cast aside Thousands of contaminated sites exist in the United States due to dumped left out or otherwise improperly managed hazardous waste

These sites include manufacturing facilities processing plants landfills and mining sites Based on the 1980 Comprehensive Environmental Response Compensation and Liability Act CERCLA the US Environmental Protection Agency EPA cleans up these so called Superfund sites of which roughly 40 percent are located in Native country The book links present day Native American cultural and economic revival to a fundamental struggle to restore the health of both Native peoples and their homelands It links past and present with a sense of Native Americans perceptions of nature and the sacred land By doing so it also provides the majority society with an example to emulate as we emerge by necessity from the age of fossil fuels into a sustainable energy paradigm This makes the book a must read for students scholars and researchers of Native American studies US politics environmental studies public policy as well as policy makers interested in a better understanding of the environmental devastation of Native land and its consequences

The Holocene Neil Roberts, 2013-11-26 The Holocene provides students researchers and lay readers with the remarkable story of how the natural world has been transformed since the end of the last Ice Age around 15 000 years ago This period has witnessed a shift from environmental changes determined by natural forces to those dominated by human actions including those of climate and greenhouse gases Understanding the environmental changes both natural and anthropogenic that have occurred during the Holocene is of crucial importance if we are to achieve a sustainable environmental future Revised and updated to take full account of the most recent advances the third edition of this classic text includes substantial material on the scientific methods that are used to reconstruct and date past environments as well as new concepts such as the Anthropocene The book is fully illustrated global in coverage and contains case studies a glossary and more than 500 new references

Climate Change Bruce E. Johansen, 2017-09-15 This three volume set presents entries and primary sources that will impress on readers that what we do or don't do today regarding climate change will dramatically influence what life on this planet will be like for untold numbers of generations How are the behaviors of birds butterflies and other migratory animals connected to climate change What does the term thermal inertia mean and what does this geophysical effect have on predicting what the planet's future will be like What is the context for the effects we are seeing on various forms of animal life from migrating birds to polar bears to mosquitoes that transmit Zika and other diseases

Climate Change An Encyclopedia of Science Society and Solutions combines entries describing Earth's variable climatic history references to scientific literature weather record data and selected primary documents to present readers with a comprehensive account of global warming's effects worldwide By examining verifiable quantitative information such as the frequency and intensity of hurricanes and changes in the hydrological cycle as well as clear patterns and trends of alternating droughts and deluges and wildfires melting ice and rising seas readers will be able to understand why scientists are so concerned about the future of our climate Researchers will benefit from detailed explanations of scientific topics such as thermal inertia feedbacks and tipping points and receive invaluable context on the role of energy use in climate change including automobiles and air travel Readers will learn about

the role of China in the current global climate and in the future the widespread effects of climate change on agriculture and how indigenous peoples lives are being impacted from drought and the Navajos to hunters lives in the Arctic The work concludes with thought provoking debates regarding potential solutions from wind power and solar power to geo engineering

The AMS Weather Book Jack Williams,2013-04-05 America has one of the most varied and dynamic weather systems in the world Every year the Gulf Coast is battered by hurricanes the Great Plains are ravaged by tornados the Midwest is pummeled by blizzards and the temperature in the Southwest reaches a sweltering 120 degrees Extreme weather can be a matter of life and death but even when it is pleasant 72 degrees and sunny weather is still central to the lives of all Americans Indeed it s hard to imagine a topic of greater collective interest Whether we want to know if we should close the storm shutters or just carry an umbrella to work we turn to forecasts But few of us really understand the science behind them All that changes with *The AMS Weather Book* The most comprehensive and up to date guide to our weather and our atmosphere it is the ultimate resource for anyone who wants to understand how hurricanes form why tornados twirl or even why the sky is cerulean blue Written by esteemed science journalist and former USA Today weather editor Jack Williams *The AMS Weather Book* covers everything from daily weather patterns to air pollution and global warming and explores the stories of people coping with severe weather and those who devote their lives to understanding the atmosphere oceans and climate Words alone of course are not adequate to explain many meteorological concepts so *The AMS Weather Book* is filled with engaging full color graphics that explain such concepts as why winds blow in a particular direction how Doppler weather radar works what happens inside hurricanes how clouds create wind and snow and what s really affecting the earth s climate For Weather Channel junkies amateur meteorologists and storm chasers alike *The AMS Weather Book* is an invaluable tool for anyone who wants to better understand how weather works and how it affects our lives *The*

Environment and International Relations Kate O'Neill,2009-01-22 This exciting textbook introduces students to the ways in which the theories and tools of International Relations can be used to analyse and address global environmental problems Kate O Neill develops an historical and analytical framework for understanding global environmental issues and identifies the main actors and their roles allowing students to grasp the core theories and facts about global environmental governance She examines how governments international bodies scientists activists and corporations address global environmental problems including climate change biodiversity loss ozone depletion and trade in hazardous wastes The book represents a new and innovative theoretical approach to this area as well as integrating insights from different disciplines thereby encouraging students to engage with the issues to equip themselves with the knowledge they need and to apply their own critical insights This will be invaluable for students of environmental issues both from political science and environmental studies perspectives **Gaither's Dictionary of Scientific Quotations** Carl C. Gaither,Alma E.

Cavazos-Gaither,2012-01-05 This unprecedented collection of 27 000 quotations is the most comprehensive and carefully

researched of its kind covering all fields of science and mathematics With this vast compendium you can readily conceptualize and embrace the written images of scientists laymen politicians novelists playwrights and poets about humankind s scientific achievements Approximately 9000 high quality entries have been added to this new edition to provide a rich selection of quotations for the student the educator and the scientist who would like to introduce a presentation with a relevant quotation that provides perspective and historical background on his subject Gaither s Dictionary of Scientific Quotations Second Edition provides the finest reference source of science quotations for all audiences The new edition adds greater depth to the number of quotations in the various thematic arrangements and also provides new thematic categories

Soundings Doreen Cunningham, 2022-07-12 In this memoir of motherhood love and resilience a woman and her toddler son follow the grey whale migration from Mexico to northernmost Alaska In this striking blend of nature writing whale science and memoir Doreen Cunningham interweaves two stories tracking the extraordinary northward migration of the grey whales with a mischievous toddler in tow and living with an I upiaq family in Alaska seven years earlier Throughout the journey she explores the stories of the whales and their young calves their history their habits and their attempts to survive the changes humans have brought to the ocean Cunningham s voice is powerful sharp profound sensitive and unflinching A story of courage and resilience Soundings is about the migrating whales and all we can learn from them as they mother adapt and endure their lives interrupted and threatened by global warming It is also a riveting journey onto the Arctic Sea ice and into the changing world of Indigenous whale hunters where Doreen becomes immersed in the ancient values of the I upiaq whale hunt and falls in love For this is Doreen s story too a fierce feminist tale touching on her childhood and her time living in a Women s Refuge with her baby becoming a mother just like the whales Lyrical brave and fearlessly honest Soundings is an unforgettable journey

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