

Inventing Atmospheric Science

Bjerknes, Rossby, Wexler, and the
Foundations of Modern Meteorology



James Rodger Fleming

Inventing Atmospheric Science Bjerknes Rossby Wexler And The Foundations Of Modern Meteorology

Adam Wickberg, Johan Gärdebo



Inventing Atmospheric Science Bjerknes Rossby Wexler And The Foundations Of Modern Meteorology:

Inventing Atmospheric Science James Rodger Fleming, 2016-02-05 How scientists used transformative new technologies to understand the complexities of weather and the atmosphere told through the intertwined careers of three key figures The goal of meteorology is to portray everything atmospheric everywhere always declared John Bellamy and Harry Wexler in 1960 soon after the successful launch of TIROS 1 the first weather satellite Throughout the twentieth century meteorological researchers have had global ambitions incorporating technological advances into their scientific study as they worked to link theory with practice Wireless telegraphy radio aviation nuclear tracers rockets digital computers and Earth orbiting satellites opened up entirely new research horizons for meteorologists In this book James Fleming charts the emergence of the interdisciplinary field of atmospheric science through the lives and careers of three key figures Vilhelm Bjerknes 1862 1951 Carl Gustaf Rossby 1898 1957 and Harry Wexler 1911 1962 In the early twentieth century Bjerknes worked to put meteorology on solid observational and theoretical foundations His younger colleague the innovative and influential Rossby built the first graduate program in meteorology at MIT trained aviation cadets during World War II and was a pioneer in numerical weather prediction and atmospheric chemistry Wexler one of Rossby's best students became head of research at the U S Weather Bureau where he developed new technologies from radar and rockets to computers and satellites conducted research on the Antarctic ice sheet and established carbon dioxide measurements at the Mauna Loa Observatory in Hawaii He was also the first meteorologist to fly into a hurricane an experience he chose never to repeat Fleming maps both the ambitions of an evolving field and the constraints that checked them war bureaucracy economic downturns and most important the ultimate realization prompted by the formulation of chaos theory in the 1960s by Edward Lorenz that perfectly accurate measurements and forecasts would never be possible

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atmospheric chemistry Wexler one of Rossby's best students became head of research at the U S Weather Bureau where he developed new technologies from radar and rockets to computers and satellites conducted research on the Antarctic ice sheet and established carbon dioxide measurements at the Mauna Loa Observatory in Hawaii He was also the first meteorologist to fly into a hurricane an experience he chose never to repeat Fleming maps both the ambitions of an evolving field and the constraints that checked them war bureaucracy economic downturns and most important the ultimate realization prompted by the formulation of chaos theory in the 1960s by Edward Lorenz that perfectly accurate measurements and forecasts would never be possible

Climate and Culture Giuseppe Feola, Hilary Geoghegan, Alex Arnall, 2019-10-03 Discusses how culture both facilitates and inhibits our ability to address live with and make sense of climate change

Politics, Statistics and Weather Forecasting, 1840-1910 Aitor Anduaga, 2019-07-12 Weather forecasting is the most visible branch of meteorology and has its modern roots in the nineteenth century when scientists redefined meteorology in the way weather forecasts were made developing maps of isobars or lines of equal atmospheric pressure as the main forecasting tool This book is the history of how weather forecasting was moulded and modelled by the processes of nation state building and statistics in the Western world

Modern Architecture and Climate Daniel A. Barber, 2023-04-11 How climate influenced the design strategies of modernist architects Modern Architecture and Climate explores how leading architects of the twentieth century incorporated climate mediating strategies into their designs and shows how regional approaches to climate adaptability were essential to the development of modern architecture Focusing on the period surrounding World War II before fossil fuel powered air conditioning became widely available Daniel Barber brings to light a vibrant and dynamic architectural discussion involving design materials and shading systems as means of interior climate control He looks at projects by well known architects such as Richard Neutra Le Corbusier Lcio Costa Mies van der Rohe and Skidmore Owings and Merrill and the work of climate focused architects such as MMM Roberto Olgyay and Olgyay and Cliff May Drawing on the editorial projects of James Marston Fitch Elizabeth Gordon and others he demonstrates how images and diagrams produced by architects helped conceptualize climate knowledge alongside the work of meteorologists physicists engineers and social scientists Barber describes how this novel type of environmental media catalyzed new ways of thinking about climate and architectural design Extensively illustrated with archival material Modern Architecture and Climate provides global perspectives on modern architecture and its evolving relationship with a changing climate showcasing designs from Latin America Europe the United States the Middle East and Africa This timely and important book reconciles the cultural dynamism of architecture with the material realities of ever increasing carbon emissions from the mechanical cooling systems of buildings and offers a historical foundation for today's zero carbon design

Firmament Simon Clark, 2022-01-27 Compelling Clark's enthusiasm shines through on every page Sunday Times An engaging and lively history Financial Times _____ A thin invisible layer of air surrounds the Earth sustaining all known

life on the planet and creating the unique climates and weather patterns that make each part of the world different In Firmament atmospheric scientist and science communicator Simon Clark offers a rare and accessible tour of the ins and outs of the atmosphere and how we know what we know about it From the workings of its different layers to why carbon dioxide is special from pioneers like Pascal to the unsung heroes working in the field to help us understand climate change Firmament introduces us to an oft overlooked area of science and not only lays the ground work for us to better understand the debates surrounding the climate today but also provides a glimpse of the future that is possible with this knowledge in hand

_____ **Imperial Weather** Fiona Williamson, 2025-04-29 Tropical weather in colonial Malaya presented an unknown atmosphere that manifested in extremes and uncertainties From 1840 to 1940 the Indigenous landscapes of Singapore and Penang Islands were altered in ways that will never be reclaimed the natural ecology of much of the peninsula forever changed by the British colonial government With this book Fiona Williamson revisits the fraught relationship between climate weather science and empire within the Straits Settlements in the long nineteenth century Her book examines official and scientific responses to local weathers within the multicultural ports and peripheries of Singapore and George Town Malaysia The challenges of creating a livable environment in tropical conditions she explains frequently pushed the colonial government beyond its capacities and solutions often came at the expense of nature which ironically made managing the weather more problematic Imperial Weather offers a deep exploration of various official attempts to understand and apply structure to the previously unknown or uncontrollable through knowledge gathering institutionalization and technological and infrastructural change Drawing from the history of science especially the history of meteorology and environmental history it explores the multiple interests capacities and capabilities at play including the state of scientific knowledge and the economy funding and importantly socioenvironmental needs and practicalities **First Woman** James Rodger

Fleming, 2020-07-15 Clouds are the spark plugs in the heat engine of the tropical atmosphere and heat from the tropics drives the planet's general circulation Atmospheric scientists didn't know this in the 1950s but Joanne Simpson the first American woman to earn a Ph D in meteorology did Most histories of meteorology focus on polar and temperate regions and the accomplishments of male scientists They marginalize or erase completely the contributions of female researchers Joanne's work on the tropical atmosphere did not fit this pattern Joanne had a lifelong passion for clouds and severe storms She flew into and above them photographed them modeled them attempted to modify them and studied them from all angles She held two university professorships married three times had two lovers one secret mentored a generation of meteorologists and blazed a trail for other women to follow This book is about Joanne's personal and professional life her career prospects as a woman in science and her relationship to the tropical atmosphere These multifaceted and interacting textual streams constitute a braided narrative and form a complex dynamic system that displays surprising emergent properties Is Joanne Simpson best remembered as a pioneer woman scientist or the best tropical scientist of her generation She was both with the

emphasis on best scientist *Handbook of the Historiography of the Earth and Environmental Sciences* Elena Aronova, David Sepkoski, Marco Tamborini, 2025-09-30 This open access handbook aims to provide a definitive assessment of the historiography and the future of major themes and approaches within the history of the earth sciences understood broadly The volume is intended for a broad range of readers including graduate students other scholars and scientists both familiar with and new to the history of the earth and environmental sciences Essays in the collection reflect on various problems in the study of the history of the earth sciences emphasizing crosscutting themes such as economics technology politics gender etc and featuring innovative ways of framing historiographic perspectives Since scholarship in the history of science is increasingly becoming entangled with environmental economic and bureaucratic political gender and other historical approaches the volume as a whole emphasizes the breadth and diversity of scholarship on the earth and environmental sciences

The Routledge History of American Science Timothy W. Kneeland, 2022-12-01 The Routledge History of American Science provides an essential companion to the most significant themes within the subject area The field of the history of science continues to grow and expand into new areas and to adopt new theories to explain the role of science and its connections to politics economics religion social structures intellectual history and art This book takes North America as its focus and explores the history of science in the region both nationally and internationally with 27 chapters from a range of disciplines Part I takes a chronological look at the history of science in America from its origins in the Atlantic World through to the American Revolution the Civil War the World Wars and ending in the postmodern era Part II discusses American science in practice from scientists as practitioners laboratories and field experiences to science and religion Part III examines the relationship between science and power The chapters touch on the intersection of science and imperialism environmental science in U S politics as well as capitalism and science Finally Part IV explores how science is embedded in the culture of the United States with topics such as the growing importance of climate science the role of scientific racism the construction of gender and how science and disability studies converge The final chapter reviews the way in which society has embraced or rejected science with reflections on the recent pandemic and what it may mean for the future of American science This book fills a much needed gap in the history and historiography of American science studies and will be an invaluable guide for any student or researcher in the history of science in America

Creating and Using Virtual Prototyping Software Douglass E. Post, Richard P. Kendall, 2021-12-28 Develop Deploy and Sustain High Performance Virtual Prototyping for Advanced R as well as detailed descriptions of each step in the process with clear rationales and concrete examples The authors share detailed references a convenient glossary and bibliography sidebars on overcoming real world challenges and more The book reviews the essentials of computational engineering and science and the pivotal role of virtual prototyping It helps readers to Plan and manage the paradigm shift from physical to virtual prototyping Establish execute and evolve Agile processes for developing virtual prototyping software Understand and implement virtual

prototyping tools and workflows Verify and validate prototyping systems to ensure accuracy and utility Recruit and retain a specialized workforce and train and support users Explore additional emerging roles for virtual prototyping

Science on a Mission Naomi Oreskes, 2021-04-19 A vivid portrait of how Naval oversight shaped American oceanography revealing what difference it makes who pays for science What difference does it make who pays for science Some might say none If scientists seek to discover fundamental truths about the world and they do so in an objective manner using well established methods then how could it matter who's footing the bill History however suggests otherwise In science as elsewhere money is power Tracing the recent history of oceanography Naomi Oreskes discloses dramatic changes in American ocean science since the Cold War uncovering how and why it changed Much of it has to do with who pays After World War II the US military turned to a new uncharted theater of warfare the deep sea The earth sciences particularly physical oceanography and marine geophysics became essential to the US Navy which poured unprecedented money and logistical support into their study Science on a Mission brings to light how this influx of military funding was both enabling and constricting it resulted in the creation of important domains of knowledge but also significant lasting and consequential domains of ignorance As Oreskes delves into the role of patronage in the history of science what emerges is a vivid portrait of how naval oversight transformed what we know about the sea It is a detailed sweeping history that illuminates the ways funding shapes the subject scope and tenor of scientific work and it raises profound questions about the purpose and character of American science What difference does it make who pays The short answer is a lot

The Rise of Climate Science Gerald R. North, 2020-10-21 In a career spanning four decades Gerald R North contributed groundbreaking research that continues to shape the modern field of climate science However the route he has taken was full of surprising twists and turns that included hate mail eavesdropping by the KGB and sometimes acrimonious debate with climate change deniers North's significant contributions to the field include his innovative toy model analysis of climate change based on ingeniously simplified models and his lead proposal for and successful approval of the Tropical Rainfall Measuring Mission TRMM satellite Launched in 1997 the TRMM's purpose was to collect data on the global climate system The TRMM operated successfully for 17 years before it was deactivated in 2015 In The Rise of Climate Science North recounts in detail his life in the vanguard of modern climate science He offers an insider look at the academic research and government initiatives around global warming and what that means for the planet He includes stories of conversations with top Soviet climate scientists at the height of the Cold War in the late 1970s complete with clandestine electronic surveillance He also describes the experience of testifying before Congress and engaging in public exchanges with those who doubted the reality of the phenomenon his research field described Climatology today has advanced into a mature phase This book is an important contribution to understanding its development in the twentieth century and adds a distinctly human face and sensibility to the ongoing societal conversation around climate change and its implications for our future

Tornado God Peter J.

Thuesen,2020-04-01 One of the earliest sources of humanity's religious impulse was severe weather which ancient peoples attributed to the wrath of storm gods Enlightenment thinkers derided such beliefs as superstition and predicted they would pass away as humans became more scientifically and theologically sophisticated But in America scientific and theological hubris came face to face with the tornado nature's most violent windstorm Striking the United States more than any other nation tornadoes have consistently defied scientists efforts to unlock their secrets Meteorologists now acknowledge that even the most powerful computers will likely never be able to predict a tornado's precise path Similarly tornadoes have repeatedly brought Americans to the outer limits of theology drawing them into the vortex of such mysteries as how to reconcile suffering with a loving God and whether there is underlying purpose or randomness in the universe In this groundbreaking history Peter Thuesen captures the harrowing drama of tornadoes as clergy theologians meteorologists and ordinary citizens struggle to make sense of these death dealing tempests He argues that in the tornado Americans experience something that is at once culturally peculiar the indigenous storm of the national imagination and religiously primal the sense of awe before an unpredictable and mysterious power He also shows that in an era of climate change the weather raises the issue of society's complicity in natural disasters In the whirlwind Americans confront the question of their own destiny how much is self determined and how much is beyond human understanding or control

Helmholtz David Cahan,2018-09-11 Hermann von Helmholtz was a towering figure of nineteenth century scientific and intellectual life Best known for his achievements in physiology and physics he also contributed to other disciplines such as ophthalmology psychology mathematics chemical thermodynamics and meteorology With *Helmholtz A Life in Science* David Cahan has written a definitive biography one that brings to light the dynamic relationship between Helmholtz's private life his professional pursuits and the larger world in which he lived Utilizing all of Helmholtz's scientific and philosophical writings as well as previously unknown letters this book reveals the forces that drove his life a passion to unite the sciences vigilant attention to the sources and methods of knowledge and a deep appreciation of the ways in which the arts and sciences could benefit each other By placing the overall structure and development of his scientific work and philosophy within the greater context of nineteenth century Germany Helmholtz also serves as cultural biography of the construction of the scientific community its laboratories institutes journals disciplinary organizations and national and international meetings Helmholtz's life is a shining example of what can happen when the sciences and the humanities become interwoven in the life of one highly motivated energetic and gifted person

Human Health and Physical Activity During Heat Exposure Yuri Hosokawa,2018-04-17 This book provides fundamental concepts in human thermal physiology and their applications in general public occupational military and athletics settings from the biometeorological perspective The book includes a section on human physiology epidemiology and special considerations in aforementioned populations and behavioral and technological adjustments people may take to combat thermal environmental stress and safeguard their health The book is the first of its kind to compile multiple disciplines

human physiology climatology and medicine in one to provide fundamental concepts in human thermal physiology and their applications in general public occupational military and athletics settings from the biometeorological perspective Developed by experts scientists and physicians from exercise physiology climatology public health sports medicine and military medicine Highlights special considerations and applications of thermal physiology to general public occupational military and athletics settings

Environing Media Adam Wickberg, Johan Gärdebo, 2022-08-22 This edited volume interrogates the role of media technologies in the formation of environments understood both as physical spaces and as epistemological constructs about them Using the concept of environing media the book advances a deeper understanding of how media processes defined here as the storage process and transmission of data influence human Earth relations Virtually all aspects of the interconnected global ecological crisis can be related to the intensification and acceleration of scaling up the human imprint on the planet by technological means Combining ideas from the humanities arts and humanistic social sciences Environing Media offers a perspective on how we entered the current geological epoch the Anthropocene The ten chapters explore colonial planetary and elemental environing media with cases including indigenous history ocean monitoring computational history climate modeling environmental history the air as medium the biosphere and the Earth system Drawing upon a breadth of examples and expertise in history anthropology geography cultural history science and technology studies and media studies the book discovers a novel approach to human Earth histories that demonstrates how technologies have mediated between humans and environments and in the process contributed to a societal feedback loop between knowing and doing environment each impacting the other Environing Media is a timely addition for scholars and upper level students in environmental humanities and media studies The Open Access version of chapters 1 2 3 4 5 7 8 and 9 are available at <http://www.taylorfrancis.com/books/e/9781003282891> Chapters 1 2 4 5 and 7 have been made available under a Creative Commons Attribution Non Commercial No Derivatives 4.0 CC BY NC ND 4.0 license Chapters 3 8 and 9 have been made available under a Creative Commons Attribution CC BY 4.0 license

Our Biggest Experiment Alice Bell, 2021-09-21 Traversing science politics and technology *Our Biggest Experiment* shines a spotlight on the little known scientists who sounded the alarm to reveal the history behind the defining story of our age the climate crisis Our understanding of the Earth's fluctuating environment is an extraordinary story of human perception and scientific endeavor It also began much earlier than we might think In *Our Biggest Experiment* Alice Bell takes us back to climate change science's earliest steps in the eighteenth and nineteenth centuries through the point when concern started to rise in the 1950s and right up to today where the debate is over and the world is finally starting to face up to the reality that things are going to get a lot hotter a lot drier in some places and a lot wetter in others with catastrophic consequences for most of Earth's biomes *Our Biggest Experiment* recounts how the world became addicted to fossil fuels how we discovered that electricity could be a savior and how renewable energy is far from a twentieth century discovery Bell cuts through complicated jargon and jumbles of numbers to

show how we're getting to grips with what is now the defining issue of our time. The message she relays is ultimately hopeful: harnessing the ingenuity and intelligence that has driven the history of climate change research can result in a more sustainable and bearable future for humanity.

The Anthropocene David R. Butler, 2021-12-21. This book is devoted to the Anthropocene, the period of unprecedented human impacts on Earth's environmental systems, and illustrates how geographers envision the concept of the Anthropocene. This edited volume illustrates that geographers have a diverse perspective on what the Anthropocene is and represents. The chapters also show that geographers do not feel it necessary to identify only one starting point for the temporal onset of the Anthropocene. Several starting points are suggested, and some authors support the concept of a time transgressive Anthropocene. Chapters in this book are organized into six sections, but many of them transcend easy categorization and could have fit into two or even three different sections. Geographers embrace the concept of the Anthropocene while defining it and studying it in a variety of ways that clearly show the breadth and diversity of the discipline. This book will be of great value to scholars, researchers, and students interested in geography, environmental humanities, environmental studies, and anthropology. The chapters in this book were originally published as a special issue of the journal *Annals of the American Association of Geographers*.

Jet Stream Tim Woollings, 2020. This book offers a general introduction to the jet stream and examines how it affects much of the weather across the northern hemisphere. The science is built up as we follow a journey along the jet stream, providing structure and an element of a travelogue.

The Top Books of the Year Inventing Atmospheric Science Bjerknes Rossby Wexler And The Foundations Of Modern Meteorology The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have charmed audiences this year. Inventing Atmospheric Science Bjerknes Rossby Wexler And The Foundations Of Modern Meteorology : Colleen Hoover "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Inventing Atmospheric Science Bjerknes Rossby Wexler And The Foundations Of Modern Meteorology : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and gripping novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

http://www.armchairempire.com/results/scholarship/fetch.php/how_tiger_got_his_stripes_a_folktale_from_vietnam_story_cove.pdf

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