

Meteorology in America, 1800-1870



James Rodger Fleming

Meteorology In America 1800 1870 Free

**Jesse Lynch Williams, Edwin Mark
Norris**



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Meteorology in America, 1800-1870 James Rodger Fleming, 1990 Between 1800 and 1870 meteorology emerged as both a legitimate science and a government service in America Challenging the widely held assumption that meteorologists were mere data gatherers and that U S scientists were inferior to their European counterparts James Rodger Fleming shows how the 1840s debate over the nature and causes of storms led to a meteorological crusade that would transform both theory and practice Centrally located administrators organized hundreds of widely dispersed volunteer and military observers into systematic projects that covered the entire nation Theorists then used these systems to observe weather patterns over large areas making possible for the first time the compilation of accurate weather charts and maps When in 1870 Congress created a federal storm warning service under the U S Army Signal Office the era of amateur scientists volunteer observers and adhoc organizations came to an end But the gains had been significant including advances in natural history and medical geography and in understanding the general circulation of the earth s atmosphere

Reader's Guide to the History of Science Arne Hessenbruch, 2013-12-16 The Reader s Guide to the History of Science looks at the literature of science in some 550 entries on individuals Einstein institutions and disciplines Mathematics general themes Romantic Science and central concepts Paradigm and Fact The history of science is construed widely to include the history of medicine and technology as is reflected in the range of disciplines from which the international team of 200 contributors are drawn

Thaddeus William Harris (1795-1856) Clark A. Elliott, 2008 Thaddeus William Harris first made his living as a physician and for many years thereafter as Harvard librarian For six years he also taught natural history in Harvard College Henry David Thoreau was one of his students but his desire for a full time professorship was never realized

Tides of History Michael S. Reidy, 2009-10-15 In the first half of the nineteenth century the British sought to master the physical properties of the oceans in the second half they lorded over large portions of the oceans outer rim The dominance of Her Majesty s navy was due in no small part to collaboration between the British Admiralty the maritime community and the scientific elite Together they transformed the vast emptiness of the ocean into an ordered and bounded grid In the process the modern scientist emerged Science itself expanded from a limited and local undertaking receiving parsimonious state support to worldwide and relatively well financed research involving a hierarchy of practitioners Analyzing the economic political social and scientific changes on which the British sailed to power Tides of History shows how the British Admiralty collaborated closely not only with scholars such as William Whewell but also with the maritime community sailors local tide table makers dockyard officials and harbormasters in order to systematize knowledge of the world s oceans coasts ports and estuaries As Michael S Reidy points out Britain s security and prosperity as a maritime nation depended on its ability to maneuver through the oceans and dominate coasts and channels The practice of science and the rise of the scientist became inextricably linked to the process of European expansion

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 but in America scientific and theological hubris came face to face with the tornado nature's most violent windstorm. In this groundbreaking history Peter J. Thuesen traces the primal connections between weather and religion in the United States. He shows that tornadoes and other storms have repeatedly drawn Americans into the profoundest of religious mysteries and confronted them with the question of their own destiny: how much is self-determined and how much is beyond human understanding or control.

To Master the Boundless Sea Jason W. Smith, 2018-04-13 As the United States grew into an empire in the late nineteenth century, notions like sea power derived not only from fleets, bases and decisive battles but also from a scientific effort to understand and master the ocean environment. Beginning in the early nineteenth century and concluding in the first years of the twentieth, Jason W. Smith tells the story of the rise of the U.S. Navy and the emergence of American ocean empire through its struggle to control nature. In vividly told sketches of exploration, naval officers' war and most significantly the ocean environment, Smith draws together insights from environmental, maritime, military and naval history and the history of science and cartography, placing the U.S. Navy's scientific efforts within a broader cultural context. By recasting and deepening our understanding of the U.S. Navy and the United States at sea, Smith brings to the fore the overlooked work of naval hydrographers, surveyors and cartographers. In the nautical chart's soundings, names, symbols and embedded narratives, Smith recounts the largely untold story of a young nation looking to extend its power over the boundless sea.

Why Trust Science? Naomi Oreskes, 2021-04-06 Why the social character of scientific knowledge makes it trustworthy. Are doctors right when they tell us vaccines are safe? Should we take climate experts at their word when they warn us about the perils of global warming? Why should we trust science when so many of our political leaders don't? Naomi Oreskes offers a bold and compelling defense of science, revealing why the social character of scientific knowledge is its greatest strength and the greatest reason we can trust it. Tracing the history and philosophy of science from the late nineteenth century to today, this timely and provocative book features a new preface by Oreskes and critical responses by climate experts Ottmar Edenhofer and Martin Kowarsch, political scientist Jon Krosnick, philosopher of science Marc Lange and science historian Susan Lindee, as well as a foreword by political theorist Stephen Macedo.

Wired into Nature James Schwoch, 2018-03-09 The completion of the Transcontinental Telegraph in 1861 completed telegraphy's mile by mile trek across the West. In addition to linking the coasts, the telegraph represented an extraordinary American effort in many fields of endeavor to know, act upon and control a continent. Merging new research with bold interpretation, James Schwoch details the unexplored dimensions of the frontier telegraph and its impact. The westward spread of telegraphy entailed encounters with environments that challenged Americans to acquire knowledge of natural history, climate and a host of other fields. Telegraph codes and ciphers meanwhile became important political, military and economic secrets. Schwoch shows how the government's use of commercial networks drove a relationship between the

two sectors that served increasingly expansionist aims He also reveals the telegraph's role in securing high ground and encouraging surveillance Both became vital aspects of the American effort to contain and conquer the West's indigenous peoples and part of a historical arc of concerns about privacy data gathering and surveillance that remains pertinent today

Entertaining and enlightening *Wired into Nature* explores an unknown history of the West **The Year Without Summer** William K. Klingaman, Nicholas P. Klingaman, 2013-02-26 In the tradition of Krakatoa and Guns Germs and Steel comes a sweeping history of the year 1816 when there was no summer As a result of a volcanic eruption in Indonesia weather patterns were disrupted worldwide for months and in the U S the extraordinary weather produced food shortages religious revivals and extensive migration *Air Apparent* Mark Monmonier, 2019-01-18 Weather maps have made our atmosphere visible understandable and at least moderately predictable In *Air Apparent* Mark Monmonier traces debates among scientists eager to unravel the enigma of storms and global change explains strategies for mapping the upper atmosphere and forecasting disaster and discusses efforts to detect and control air pollution Fascinating in its scope and detail *Air Apparent* makes us take a second look at the weather map an image that has been and continues to be central to our daily lives Clever title rewarding book Monmonier offers here a basic course in meteorology which he presents gracefully by means of a history of weather maps Scientific American Mark Monmonier is onto a winner with *Air Apparent* It is good accessible science and excellent history Read it Fred Pearce New Scientist *Air Apparent* is a superb first reading for any backyard novice of weather but even the veteran forecaster or researcher will find it engaging and in some cases enlightening Joe Venuti Bulletin of the American Meteorological Society Monmonier is solid enough in his discussion of geographic and meteorological information to satisfy the experienced weather watcher But even if this information were not presented in such a lively and engaging manner it would still hook most any reader who checks the weather map every morning or who sits happily entranced through a full cycle of forecasts on the Weather Channel Michael Kennedy Boston Globe *The Publishers' Trade List Annual*, 1992 **Print** Martha T. Mooney, 1995 Excerpts from and citations to reviews of more than 8 000 books each year from 109 publications Electronic version with expanded coverage and retrospective version available see p 5 and p 31 Pricing Service Basis Books *Publishers Trade List Annual*, 1992, 1992 **Princeton Alumni Weekly** Jesse Lynch Williams, Edwin Mark Norris, 1990 **Agrindex**, 1992 *Guide to Reprints 2007* K. G. Saur Editorial Staff, 2006-01-10 **Catalogue of the Free Public Library**, 1881 **America, History and Life**, 2002 Article abstracts and citations of reviews and dissertations covering the United States and Canada **Bibliography of Agriculture with Subject Index**, 1991 *Bibliography of Agriculture*, 1991

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