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Weather by the Numbers Apr 26 2022 The history of the growth and professionalization of American meteorology and its transformation into a physics- and mathematics-based scientific discipline. For much of the first half of the twentieth century, meteorology was more art than science, dependent on an individual forecaster's lifetime of local experience. In *Weather by the Numbers*, Kristine Harper tells the story of the transformation of meteorology from a "guessing science" into a sophisticated scientific discipline based on physics and mathematics. What made this possible was the development of the electronic digital computer; earlier attempts at numerical weather prediction had foundered on the human inability to solve nonlinear equations quickly enough for timely forecasting. After World War II, the combination of an expanded observation network developed for military purposes, newly trained meteorologists, savvy about math and physics, and the nascent digital computer created a new way of approaching atmospheric theory and weather forecasting. This transformation of a discipline, Harper writes, was the most important intellectual achievement of twentieth-century meteorology, and paved the way for the growth of computer-assisted modeling in all the sciences.

[Research Reviews](#) Oct 21 2021

When Weather Matters Mar 26 2022 The past 15 years have seen marked progress in observing, understanding, and predicting weather. At the same time, the United States has failed to match or surpass progress in operational numerical weather prediction achieved by other nations and failed to realize its prediction potential; as a result, the nation is not mitigating weather impacts to the extent possible. This book represents a sense of the weather community as guided by the discussions of a Board on Atmospheric Sciences and Climate community workshop held in summer 2009. The book puts forth the committee's judgment on the most pressing high level, weather-focused research challenges and research to operations needs, and makes corresponding recommendations. The book addresses issues including observations, global non-hydrostatic coupled modeling, data assimilation, probabilistic forecasting, and quantitative precipitation and hydrologic forecasting. The book also identifies three important, emerging issues--predictions of very high impact weather, urban meteorology, and renewable energy development--not recognized or emphasized in previous studies. Cutting across all of these challenges is a set of socioeconomic issues, whose importance and emphasis--while increasing--has been undervalued and underemphasized in the past and warrants greater recognition and priority today.

Government Patent Policies in Meteorology and Weather Modification - 1962, Hearings Before the Subcommittee on Monopoly of ... 87-2 on ... March 26, 27, and 28, 1962 Sep 19 2021

Weather and Society May 16 2021 *Weather and Society: Toward Integrated Approaches* provides the first interdisciplinary approach to the subject of weather and society. This guide to the evolving set of problem-solving approaches to weather's societal issues successfully integrates social science's techniques, concepts and methodologies into meteorological research and practice. Drawing especially on the work of the WAS*IS workshops (Weather and Society * Integrated Studies), this important reference offers a framework for starting to understand how the consideration of societal impacts can enhance the scientific disciplines that address the scope and impacts of weather, particularly meteorology. Filled with tools, concepts, case studies and helpful exercises, this resource: Lays the groundwork for conducting interdisciplinary work by learning new strategies and addressing typical challenges Identifies leaders of the movement to integrate social science and meteorology and highlights their contributions Includes discussion of such tools as Geographic Information Systems, survey design, focus groups, participatory research and interviewing techniques and concepts Reveals effective integrated research and applications through real-world examples in a global context Helps to identify ways to pursue research, application, and educational opportunities for integrated weather-society work *Weather and Society* is a hands-on guide for academics, students and professionals that offers a new approach to the successful integration of social science concepts and methodologies into the fabric of meteorological research and practice.

Knowledge Jun 24 2019

Case Studies in Science Education: The case reports Jun 28 2022

Instant Information Dec 31 2019 Provides names and numbers of nearly 10,000 organizations and other sources of expert information on over 40,000 subjects.

NOAA's FY 2002 Budget Jun 04 2020

Terminal Weather on the San Francisco-New York Airway Sep 27 2019

Government Weather Programs Jul 06 2020
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Government Patent Policies in Meteorology and Weather Modification, 1962 Jul 18 2021
Government Weather Programs (military and Civilian Operations and Research), Feb 22 2022
Department of Transportation and Related Agencies Appropriations for 1979 Jan 12 2021
A Historical Survey of Statistical Weather Prediction May 04 2020 This work presents the history of the use of statistics in weather forecasting and describes the evolution of the more important statistical methods in this field: graphical techniques, periodicity, empirical orthogonal functions, and multiple discriminant analysis. A bibliography consisting of 141 references, divided by topics, and an appendix listing these references chronologically are included. (Author).
Summary of Hearings Nov 29 2019
Report Apr 02 2020
Physics of Precipitation Dec 23 2021
Weather Modification: Annual Report May 28 2022
Department of the Interior and Related Agencies Appropriations for Fiscal Year 1968, Hearings Before ... 90-1, on H.R. 9029 Oct 28 2019
Radar Polarimetry for Weather Observations Nov 09 2020 This monograph offers a wide array of contemporary information on weather radar polarimetry and its applications. The book tightly connects the microphysical processes responsible for the development and evolution of the clouds ' bulk physical properties to the polarimetric variables, and contains the procedures on how to simulate realistic polarimetric variables. With up-to-date polarimetric methodologies and applications, the book will appeal to practicing radar meteorologists, hydrologists, microphysicists, and modelers who are interested in the bulk properties of hydrometeors and quantification of these with the goals to improve precipitation measurements, understanding of precipitation processes, or model forecasts.
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Hearings Dec 11 2020
Annual Report of Progress on Engineering Research Jan 30 2020
1001 Questions Answered about the Weather Nov 02 2022 What causes the aurora? What are the trade winds? Over 1,000 questions with comprehensive answers cover all types of weather phenomena. This enlightening, entertaining, and well-illustrated text for anyone curious about nature features numerous diagrams and full-page illustrations. Topics include the atmosphere, climatology, storms, historical weather studies, and weather lore.
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The World of Matter-energy Mar 14 2021
Army Information Digest Nov 21 2021
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Committee Prints Mar 02 2020

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