

Wetterradar

David Atlas

Weather radar observations United States. Department of Commerce,1979

Weather radar observations ,1979

Key to ASOS (Automated Surface Observing System) Weather Observation ,1993

Secretary's Report to Congress on Adequacy of NEXRAD Coverage and Degradation of Weather Services Under National Weather Service Modernization for 32 Areas of Concern United States. Department of Commerce,1995

Automated Surface Observing System ,1997

National Weather Service United States. General Accounting Office,1998

Radar-computed Rainfall Compared with Observations from a Dense Network of Rain Gauges Martin Ross,1969 Using Wilson's Rainfall Rate - Echo Intensity (RR-EI) chart, based on the average relationship, radar data collected for 36 hours, using the US Weather Bureau's WSR-57 at Atlantic City, New Jersey, are compared with rainfall data from three tipping-bucket rain gauges. These tipping-bucket gauges are located within 60 nm of the radar and cover a 4.8 square-mile area. Comparisons between the radar and tipping-bucket gauges are shown. Radar measurements were within 2% of the total rain gauge average. The correlation coefficient was .91. Use of the US Weather Bureau's RR-EI chart would have underestimated the average areal precipitation. Hourly rainfall amounts of 0.01 inches were detected in 80% of the cases. Hourly amounts of 0.02 inches or more were detected in 100% of the cases. (Author).

Next Generation Weather Radar (NEXRAD) ,1981

Summary of Radar-rainfall Research, 1952-1968 Glenn Emanuel Stout,1968

Weather Radar Peter Meischner,2013-04-17 With their images practically ubiquitous in the daily media, weather radar systems provide data not only for understanding weather systems and improving forecasts (especially critical for severe weather), but also for hydrological applications, flood warnings and climate research in which ground verification is needed for global precipitation measurements by satellites. This book offers an accessible overview of advanced methods, applications and modern research from the European perspective. An extensive introductory chapter summarizes the principles of weather radars and discusses the potential of modern radar systems, including Doppler and polarisation techniques, data processing, and error-correction methods. Addressing both specialist researchers and nonspecialists from related areas, this book will also be useful for graduate students planning to specialize in this field

Federal Plan on Supporting Research in Surface-based Weather Radars United States. Office of Federal Coordinator for Meteorological Services and Supporting Research,1968

Progress and Prospects of Radar Meteorology David Atlas,1960

Doppler Radar & Weather Observations Richard J. Doviak,Dusan S. Zrnica,2014-08-27 This book reviews the principles of Doppler radar and emphasizes the quantitative measurement of meteorological parameters. It illustrates the relation of Doppler radar data and images to atmospheric phenomena such as tornados, microbursts, waves, turbulence, density currents, hurricanes, and lightning. Radar images and photographs of these weather phenomena are included. Polarimetric measurements and data processing An updated section on RASS Wind profilers Observations with the WSR-88D An updated treatment of lightning Turbulence in the planetary boundary layer A short history of radar Chapter problem sets

Radar in Meteorology David Atlas,2015-03-30 This fully illustrated volume covers the history of radar meteorology, deals with the issues in the field from both the operational and the scientific viewpoint, and looks ahead to future issues and how they will affect the current atmosphere. With over 200 contributors, the volume is a product of the entire community and represents an unprecedented compendium of knowledge in the field.

Use of the AN/FPS-77 for Quantitative Weather Radar Measurements Wilbur H. Paulsen,1968 A review is made of the assumptions that must be made in using a weather radar set for quantitative measurements of weather echoes. A simplified derivation is provided showing the relationship between the purely meteorological 'radar reflectivity factor' Z and the radar received power for any weather radar set when the assumptions are fulfilled. A nomogram furnished for use with the AN/FPS-77 enables a simple conversion of receiver power to Z values. (Author).

Snowfall Rates Obtained from Radar Reflectivity Within a 50 Km Range Roland J. Boucher,1981 The snowy winter of 1978 in Massachusetts allowed five opportunities to test the dependability of a CPS-9, 3.2-cm radar to determine snowfall rate and total snowfall accumulation at up to seven measuring sites within 50 km of the radar. Spaced at intervals of 0.5 -to 1-h, 166 snowfall-rate measurements yielded a correlation coefficient of 0.88. However, in correlating the total storm snowfall, the amount of radar-measured snowfall above a reference snowfall measurement site was made equal to the snowfall actually measured at this location. This calibration technique improved the storm snowfall correlation coefficient to 0.96.

A Summary of Airline Weather-radar Operational Policies and Procedures Paul W. Kadlec,1970 This report discusses and summarizes the weather-radar operational policies and procedures of eleven U.S. commercial airlines.

Next Generation Weather Radar (NEXRAD) United States. Congress. House. Committee on Science. Subcommittee on Energy and Environment,1996

Reflections David Atlas,2015-03-30 This book presents the spirited recollections and observations of David Atlas, one of the founding fathers of radar meteorology. During his career, Atlas solved many puzzles and invented numerous techniques that transformed a fledgling application into a vital scientific and operational meteorological tool. This is the story of his incredible career in his own words.

Some Techniques for Short-range Terminal Forecasting Clay G. Russell,1970 The report describes several techniques applicable to short-range terminal forecasting. Areas discussed are procedures for graphical extrapolation, nephanalysis, forecasting frontal precipitation, and the lowering of ceilings during precipitation. The use of FPS-77 radar and weather satellite data is shown as they pertain to short-range forecasting. (Author).

Wetterradar Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Wetterradar**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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