

Forecast Verification

An Update on the Public Forecast Verification Scores at Vancouver Vello Puss 1980

Weather Bureau Technical Memorandum

ER. United States. Weather Bureau 1965

Precipitation: Advances in Measurement,

Estimation and Prediction Silas C. Michaelides

2008-02-27 This volume is the outcome of contributions from 51 scientists who were invited to expose their latest findings on precipitation research and in particular, on the measurement, estimation and prediction of precipitation. The reader is presented with a blend of theoretical, mathematical and technical treatise of precipitation science but also with authentic applications, ranging from local field experiments and country-scale campaigns to multinational space endeavors.

Statistical Methods in the Atmospheric Sciences

Daniel S. Wilks 2006 Praise for the First Edition:""I recommend this book, without

hesitation, as either a reference or course text...Wilks' excellent book provides a thorough

base in applied statistical methods for atmospheric sciences.""-BAMS (Bulletin of the

American Meteorological Society)Fundamentally, statistics is concerned

with managing data and making inferences and forecasts in the face of uncertainty. It should not be surprising, therefore, that statistical methods have a key role to play in the atmospheric sciences. It is the uncertainty in atmospheric behavior that continues to move res.

Summary of Verification of Numerical Operational Tropical Cyclone Forecast

Tracks for 1965 Lloyd W. Vanderman 1966

Final Report on Investigation of the Optimum

Analytical Techniques for Weather Analysis and

Forecasting Pennsylvania State College. School

of Mineral Industries 1953

Short Range Forecast Verification Program

United States. Army Air Forces. Weather

Division 1944

Seasonal Forecast Verification in the Pacific Using a Coupled Model POAMA and the

Statistical Model SCOPIC Andrew Cottrill

2013

Verification of Severe Local Storms

Forecasts Issued by the National Severe Storms Forecast Center, 1992 Richard W.

Anthony 1993

RIVER FORECAST VERIFICATION AT THE ABRFC.

United States. National Weather

Service 2001

National Hurricane Center Forecast Verification 2006

Statistical Methods in the Atmospheric Sciences Daniel S. Wilks 1995

Forecast Verification Ian T. Jolliffe 2003-08-01

This handy reference introduces the subject of forecast verification and provides a review of the basic concepts, discussing different types of data that may be forecast. Each chapter covers a different type of predicted quantity (predictand), then looks at some of the relationships between economic value and skill scores, before moving on to review the key concepts and summarise aspects of forecast verification that receive the most attention in other disciplines. The book concludes with a discussion on the most important topics in the field that are the subject of current research or that would benefit from future research. An easy to read guide of current techniques with real life case studies An up-to-date and practical introduction to the different techniques and an examination of their strengths and weaknesses Practical advice given by some of the world's leading forecasting experts Case studies and illustrations of actual verification and its interpretation Comprehensive glossary and consistent statistical and mathematical definition of commonly used terms

Statistical Postprocessing of Ensemble Forecasts

Stéphane Vannitsem 2018-05-17

Statistical Postprocessing of Ensemble Forecasts brings together chapters contributed by international subject-matter experts describing the current state of the art in the statistical postprocessing of ensemble forecasts. The book illustrates the use of these methods in several important applications including weather, hydrological and climate forecasts, and renewable energy forecasting. After an introductory section on

ensemble forecasts and prediction systems, the second section of the book is devoted to exposition of the methods available for statistical postprocessing of ensemble forecasts: univariate and multivariate ensemble postprocessing are first reviewed by Wilks (Chapters 3), then Schefzik and Möller (Chapter 4), and the more specialized perspective necessary for postprocessing forecasts for extremes is presented by Friederichs, Wahl, and Buschow (Chapter 5). The second section concludes with a discussion of forecast verification methods devised specifically for evaluation of ensemble forecasts (Chapter 6 by Thorarinsdottir and Schuhen). The third section of this book is devoted to applications of ensemble postprocessing. Practical aspects of ensemble postprocessing are first detailed in Chapter 7 (Hamill), including an extended and illustrative case study. Chapters 8 (Hemri), 9 (Pinson and Messner), and 10 (Van Schaeybroeck and Vannitsem) discuss ensemble postprocessing specifically for hydrological applications, postprocessing in support of renewable energy applications, and postprocessing of long-range forecasts from months to decades. Finally, Chapter 11 (Messner) provides a guide to the ensemble-postprocessing software available in the R programming language, which should greatly help readers implement many of the ideas presented in this book. Edited by three experts with strong and complementary expertise in statistical postprocessing of ensemble forecasts, this book assesses the new and rapidly developing field of ensemble forecast postprocessing as an extension of the use of statistical corrections to traditional deterministic forecasts. Statistical Postprocessing of Ensemble Forecasts is an essential resource for researchers, operational practitioners, and students in weather, seasonal, and climate forecasting, as well as users of such forecasts in fields involving renewable energy, conventional energy, hydrology, environmental engineering, and agriculture. Consolidates, for the first time, the methodologies and applications of ensemble forecasts in one succinct place Provides real-world examples of methods used to formulate forecasts Presents the tools needed to make the best use of multiple model forecasts in a timely and efficient

manner

AFOS-era Forecast Verification Mary Margaret Heffernan 1983

Operational Weather Forecasting Peter Michael Inness 2012-12-06 This book offers a complete primer, covering the end-to-end process of forecast production, and bringing together a description of all the relevant aspects together in a single volume; with plenty of explanation of some of the more complex issues and examples of current, state-of-the-art practices. *Operational Weather Forecasting* covers the whole process of forecast production, from understanding the nature of the forecasting problem, gathering the observational data with which to initialise and verify forecasts, designing and building a model (or models) to advance those initial conditions forwards in time and then interpreting the model output and putting it into a form which is relevant to customers of weather forecasts. Included is the generation of forecasts on the monthly-to-seasonal timescales, often excluded in text-books despite this type of forecasting having been undertaken for several years. This is a rapidly developing field, with a lot of variations in practices between different forecasting centres. Thus the authors have tried to be as generic as possible when describing aspects of numerical model design and formulation. Despite the reliance on NWP, the human forecaster still has a big part to play in producing weather forecasts and this is described, along with the issue of forecast verification – how forecast centres measure their own performance and improve upon it. Advanced undergraduates and postgraduate students will use this book to understand how the theory comes together in the day-to-day applications of weather forecast production. In addition, professional weather forecasting practitioners, professional users of weather forecasts and trainers will all find this new member of the R MetS Advancing Weather and Climate series a valuable tool. Provides an end-to-end description of the weather forecasting process Clearly structured and pitched at an accessible level, the book discusses the practical choices that operational forecasting centres have to make in terms of what numerical models they use and when they are run. Takes a very practical approach, using real life case-studies to contextualize information

Discusses the latest advances in the area, including ensemble methods, monthly to seasonal range prediction and use of 'nowcasting' tools such as radar and satellite imagery. Full colour throughout. Written by a highly respected team of authors with experience in both academia and practice. Part of the RMetS book series 'Advancing Weather and Climate'

Experimental Long-lead Forecast Bulletin 2000 Verification of the Weather Bureau's 30-day Outlook National Meteorological Center (U.S.). Extended Forecast Section 1961 Generalized estimates of probable maximum precipitation have been available for the United States east of the 105th meridian for several years. The need for similar data for the planning and design requirements of the Soil Conservation Service in the region west of the 105th meridian led that agency to cooperate with estimates for that area. This report presents generalized estimates of probable maximum precipitation for areas from a point to 400 square miles and for durations up to 24 hours.

Verification of Severe Local Storms Forecasts Issued by the National Severe Storms Forecast Center: 1993 Richard W. Anthony 1994 The SELS Unit of the National Severe Storms Forecast Center routinely issues convective outlooks and severe local storm watches to delineate areas that are favorable for development of severe local storms. This report summarizes verification of those forecasts that were issued during 1993.

Statistical Methods in the Atmospheric Sciences Daniel S. Wilks 2011-07-04 Statistical Methods in the Atmospheric Sciences, Third Edition, explains the latest statistical methods used to describe, analyze, test, and forecast atmospheric data. This revised and expanded text is intended to help students understand and communicate what their data sets have to say, or to make sense of the scientific literature in meteorology, climatology, and related disciplines. In this new edition, what was a single chapter on multivariate statistics has been expanded to a full six chapters on this important topic. Other chapters have also been revised and cover exploratory data analysis, probability distributions, hypothesis testing, statistical weather forecasting, forecast verification, and time series analysis. There is now an expanded

treatment of resampling tests and key analysis techniques, an updated discussion on ensemble forecasting, and a detailed chapter on forecast verification. In addition, the book includes new sections on maximum likelihood and on statistical simulation and contains current references to original research. Students will benefit from pedagogical features including worked examples, end-of-chapter exercises with separate solutions, and numerous illustrations and equations. This book will be of interest to researchers and students in the atmospheric sciences, including meteorology, climatology, and other geophysical disciplines. Accessible presentation and explanation of techniques for atmospheric data summarization, analysis, testing and forecasting. Many worked examples. End-of-chapter exercises, with answers provided.

AFOS-ERA Forecast Verification Robert Lind Miller 1984

Predictability of Weather and Climate Tim Palmer 2006-07-27 With contributions by leading experts, including an unpublished paper by Ed Lorenz, this book, first published in 2006, covers many topics in weather and climate predictability. It will interest those in the fields of environmental science and weather and climate forecasting, from graduate students to researchers, by examining theoretical and practical aspects of predictability.

Compendium of Meteorology Horace R. Byers 1952

A Categorical, Event Oriented, Flood Forecast Verification System for National Weather Service Hydrology David Gordon Morris 1988

Long-term Verification Trends of Forecasts by the National Weather Service Duane S. Cooley 1972

Atmospheric Convection: Research and Operational Forecasting Aspects Dario B. Gaiotti 2007-12-14 This book treats atmospheric convection from different angles including the theoretical aspects of atmospheric deep convection and the weather phenomena related to convection. The problem of boundary conditions that result in severe convective weather patterns is explored within the framework of worldwide climatology. The book bridges the gap between theory and its operational application both within the fields of

weather forecasting and that of risk management.

Synthetic Verification Matrices - 1 C. N. Touart 1973 Two approximations for the verification matrix of a subjective weather forecast are compared. Neither requires more information than the climatological frequencies of the forecast categories and the skill score of the forecast. The more accurate synthesis yields an RMS error of less than 0.01 for the 16 elements of a 4-category aviation terminal forecast. (Author).

Verification of the AFWA 3-Element Severe Weather Forecast Algorithm 2008 Accurate severe thunderstorm forecasts are critical to providing sufficient leadtime to protect lives and property. The Air Force Weather Agency has developed a 3-Element Severe Weather Forecast Algorithm that when applied to model forecasts gives and outlook region for severe thunderstorms. Improvements were made in this study to enhance the algorithm's forecast skill, reduce its "false alarm" rate, and thereby increase the amount of lead-time for installation commanders to take decisive action to protect personnel and resources. This paper discusses the performance of the 3-Element Algorithm in its original form, and the adjustments made to overcome some of its limitations. The 3-Element Algorithm techniques and results of a performance evaluation are presented. Based on the amount of forecast improvement, eight configurations were retained for analysis across the entire dataset containing six severe weather cases. A new stability proxy, the Elevated Total-Totals Index, was developed and integrated into the algorithm to improve severe weather forecasts over high-elevation regions where some traditional severe weather indices cannot be accurately computed. Additionally, the horizontal gradient of convective available potential energy was studied as a new indicator to the presence of dynamic forcing. It is hoped that improvements discussed in this paper will make the 3-Element Algorithm an effective tool in the early forecasting of severe weather, increasing lead-time to safeguard lives and resources.

River Forecast Verification at the Arkansas-Red Basin River Forecast Center Renee Wasko 2001 "Four years of river forecast verification

statistics at the ABRFC show an overall improvement of nearly 4% in forecast accuracy with river forecasts based on QPF. River forecasts with QPF are more accurate than non-QPF river forecasts during the cooler months, mainly due to the more synoptic-scale precipitation systems. On the other hand, non-QPF river forecasts outperform QPF river forecasts during the warmer months due to small-scale convective precipitation systems. This has resulted in the ABRFC re-thinking the amount of QPF used during the warm season. QPF is a powerful tool, but due to the probability of error the farther away from the current time, deterministic forecasts using QPF may be implying more confidence than we have. Therefore, the ABRFC is considering using six-hour QPF during the warm convective season and 12-hr QPF during the cool synoptic season. Longer duration QPF's should be used operationally through the issuance of River Flood Watches and Outlooks"--Conclusions.

Short Range Forecast Verification Program

United States. Army Air Forces. Weather Division 1943

Forecast Verification for the African Severe Weather Forecasting Demonstration Projects 2014

FSL in Review Forecast Systems Laboratory (U.S.) 1997

Economic Value of Weather and Climate Forecasts Richard W. Katz (ed) 1997-06-13 Weather and climate extremes can significantly impact the economics of a region. This book examines how weather and climate forecasts can be used to mitigate the impact of the weather on the economy. Interdisciplinary in scope, it explores the meteorological, economic, psychological, and statistical aspects to weather prediction. The contributors encompass forecasts over a wide range of temporal scales, from weather over the next few hours to the climate months or seasons ahead, and address the impact of these forecasts on human behaviour. *Economic Value of Weather and Climate Forecasts* seeks to determine the economic benefits of existing weather forecasting systems and the incremental benefits of improving these systems, and will be an interesting and essential reference for economists, statisticians, and meteorologists.

Diagnosing Cloudiness from Global Numerical Weather Prediction Model Forecasts 1994
Advances in Weather and Climate Forecast Verification Eric Gilleland 2022-02-15
Advances in Weather and Climate Forecast Verification is a resource for researchers and practitioners who are applying traditional and new methods of forecast evaluation. It offers information that will make it possible for researchers and others to apply the newest forecast methods; rather than searching for information in each individual method, providing the information needed to apply all of the techniques in one place. Selection of the appropriate method to apply to a particular problem is facilitated by comparisons of the methods and their results, which will be included in the book. With these skills in hand, readers can make improvements in both their modelling and the evaluation of the results. A single resource on forecast evaluation reviewing both traditional and the newest techniques Summarizes information, including terminology and methodologies, in a clear and accessible way Appropriate for new and experienced practitioners, as well as producers and users of forecasts it allows readers to understand evaluation and interpretation used when choosing a model Demonstrates techniques for forecasting and modeling extreme weather, to produce better quality model outputs when the sample size is not large
Sub-seasonal to Seasonal Prediction Andrew Robertson 2018-10-19
The Gap Between Weather and Climate Forecasting: Sub-seasonal to Seasonal Prediction is an ideal reference for researchers and practitioners across the range of disciplines involved in the science, modeling, forecasting and application of this new frontier in sub-seasonal to seasonal (S2S) prediction. It provides an accessible, yet rigorous, introduction to the scientific principles and sources of predictability through the unique challenges of numerical simulation and forecasting with state-of-science modeling codes and supercomputers. Additional coverage includes the prospects for developing applications to trigger early action decisions to lessen weather catastrophes, minimize costly damage, and optimize operator decisions. The book consists of a set of contributed chapters solicited from experts and leaders in the fields of

S2S predictability science, numerical modeling, operational forecasting, and developing application sectors. The introduction and conclusion, written by the co-editors, provides historical perspective, unique synthesis and prospects, and emerging opportunities in this exciting, complex and interdisciplinary field. Contains contributed chapters from leaders and experts in sub-seasonal to seasonal science, forecasting and applications Provides a one-stop shop for graduate students, academic and applied researchers, and practitioners in an emerging and interdisciplinary field Offers a synthesis of the state of S2S science through the use of concrete examples, enabling potential users of S2S forecasts to quickly grasp the potential for application in their own decision-making Includes a broad set of topics, illustrated with graphic examples, that highlight interdisciplinary linkages

Numerical Weather Prediction Activities

United States. National Weather Service 1980

Climate Forecast Verification Via

Multinomial Stochasters Rudolph W.

Preisendorfer 1977 The problem of attaching some quantitative measure of skill to forecasts of temperature, precipitation and other physical fields over extensive regions of the atmosphere and hydrosphere is examined. It is suggested that to each forecaster we may assign a competitive stochaster, a device or person that performs the same forecast over the same regions of space and time as the forecaster, but using a specially designed random procedure. This notion is illustrated for the case of a multinomial stochaster, by means of numerical studies of actual temperature and precipitation forecasts over the U.S. mainland for various seasons over the past three years. Specially designed tables and charts show how quantitative judgments of forecaster skills can be made in a variety of ways. (Author).

Forecast Verification Ian T. Jolliffe 2012-01-25

Forecast Verification: A Practitioner's Guide in Atmospheric Science, 2nd Edition provides an indispensable guide to this area of active research by combining depth of information with a range of topics to appeal both to professional practitioners and researchers and postgraduates. The editors have succeeded in presenting chapters by a variety of the leading

experts in the field while still retaining a cohesive and highly accessible style. The book balances explanations of concepts with clear and useful discussion of the main application areas. Reviews of first edition: "This book will provide a good reference, and I recommend it especially for developers and evaluators of statistical forecast systems." (Bulletin of the American Meteorological Society; April 2004) "...a good mixture of theory and practical applications...well organized and clearly written..." (Royal Statistical Society, Vol.168, No.1, January 2005) NEW to the second edition: Completely updated chapter on the Verification of Spatial Forecasts taking account of the wealth of new research in the area New separate chapters on Probability Forecasts and Ensemble Forecasts Includes new chapter on Forecasts of Extreme Events and Warnings Includes new chapter on Seasonal and Climate Forecasts Includes new Appendix on Verification Software Cover image credit: The triangle of barplots shows a novel use of colour for visualizing probability forecasts of ternary categories - see Fig 6b of Jupp et al. 2011, On the visualisation, verification and recalibration of ternary probabilistic forecasts, Phil. Trans. Roy. Soc. (in press).

Completing the Forecast National Research Council 2006-11-09 Uncertainty is a fundamental characteristic of weather, seasonal climate, and hydrological prediction, and no forecast is complete without a description of its uncertainty. Effective communication of uncertainty helps people better understand the likelihood of a particular event and improves their ability to make decisions based on the forecast. Nonetheless, for decades, users of these forecasts have been conditioned to receive incomplete information about uncertainty. They have become used to single-valued (deterministic) forecasts (e.g., "the high temperature will be 70 degrees Fahrenheit 9 days from now") and applied their own experience in determining how much confidence to place in the forecast. Most forecast products from the public and private sectors, including those from the National Oceanographic and Atmospheric Administration's National Weather Service, continue this deterministic legacy. Fortunately, the National Weather Service and others in the

prediction community have recognized the need to view uncertainty as a fundamental part of forecasts. By partnering with other segments of the community to understand user needs, generate relevant and rich informational products, and utilize effective communication vehicles, the National Weather Service can take a leading role in the transition to widespread, effective incorporation of uncertainty information into predictions. "Completing the Forecast" makes recommendations to the National Weather Service and the broader prediction community on how to make this transition.

Forecast Verification

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