



Fourth International Verification Methods Workshop

Monday – 8 June 2009

8:10 Registration (*FMI, Dynamicum Building Entrance Hall*)

9:00 Opening and Welcome (*Exactum Building Auditorium*)

Session 1: User-oriented Verification

Chair: Pertti Nurmi

- 9:10 1.1 Juhani Damski: Customer-oriented services at FMI
Laurence Wilson: What Is A Good Forecast:
The importance of user-orientation in verification.
- 9:50 1.2 Clive Wilson: Do key performance targets work?
- 10:10 1.3 Tressa Fowler: Wind forecast verification
- 10:30 1.4 Robert Maisha: UM model and Kalman Filter forecast verification at SAWS

10:50 – 11:20 *Tea/Coffee*

Session 2: Verification Tools and Systems

Chair: Matt Pocerlich

- 11:20 2.1 Tressa Fowler: The Model Evaluation (MET 2.0),
Overview and Recent Enhancements
- 11:40 2.2 Barbara Brown: MODE-3D: Incorporation of the time dimension
- 12:00 2.3 James Brown: The Ensemble Verification System (EVS): A software tool for
verifying ensemble forecasts of hydrometeorological and hydrologic variables
at point locations.
- 12:20 2.4 Yin Kong Leung: Objective verification of weather forecast in Hong Kong
- 12:40 2.5 Marcus Paulat: COSMO-DE-EPS – construction and verification of
a limited-area ensemble prediction system on the convective scale

13:00 – 14:00 *Lunch*

Session 3: Coping with Uncertainty in Verification Data

Chair: Chiara Marsigli

- 14:00 3.1 Carlos Santos: Introducing observational uncertainty in the scoring of
a multi-model limited area model over the European area
- 14:20 3.2 Otto Hyvärinen: Visualising verification results when no true reference
is available
- 14:40 3.3 Theresa Gorgas: The Challenge of Finding "Good" Reference Data
for Verification
- 15:00 3.4 Benedikt Bica: High resolution precipitation analysis and forecast validation
over complex terrain using an inverse VERA approach
- 15:20 3.5 Laurence Wilson: Verification of multi-model ensemble forecasts
using the TIGGE data
- 15:40 3.6 Matthew Pocerlich: Feature-oriented verification of wind speed forecasts

16:00 – 16:30 Tea/Coffee

Session 4: Properties of Verification Methods

Chair: Chris Ferro

- 16:30 4.1 Ian Jolliffe: Probability forecasts with observation error:
Is the Brier score proper?
- 16:50 4.2 Lovro Kalin: Is ETSS Really Equitable?

Session P: Poster Introductions (*one-minute each*)

Chair: Laurie Wilson

17:15 -

- P01. Julie Demargne and James Brown: Communicating hydrologic verification information for operational forecasting and real-time decision making in the U.S. National Weather Service
- P02. James McGregor: The value of GFS data for precipitation forecasting for the Waikato River catchment, New Zealand
- P03. Guenther Mahringer: TAF Verification in the MET Alliance
- P04. Sultan Al-Yahyai: Development of a portable verification Package
- P05. Adriano Raspanti: VERSUS: Unified Verification Package in COSMO
- P06. Yasutaka Ikuta: Evaluation of hydrometeors of a high-resolution model using a radar simulator
- P07. Kristian Pagh Nielsen: Verification of cloud physical properties
- P08. Robert Fawcett and Elizabeth Ebert: Base rates and skill scores
- P09. Marek Jerczynski: Some robust scale separation methods at work
- P10. Marion Mittermaier: Time-series analysis of scale-selective verification: Can we use it for operational forecast monitoring?
- P11. Pertti Nurmi: SAL Verification in Hydrological Catchments
- P12. Juan Bazo: Verification of Seasonal Rainfall Prediction in the Rimac River Basin
- P13. Jonathan Eden: Assessing the skill of GCM-simulated precipitation
- P14. David Mendes: Improving Meteorological Downscaling Methods with Neural Network Models: South America Rainfall
- P15. David Mendes: Artificial Neural Network (ANN) Application for South America Rainfall
- P16. Gezu Mengistu: Long range Ethiopian Weather forecast
- P17. Marcel Vallee: A block bootstrapping method for the Canadian NWP model
- P18. Ewan J. O'Connor: Cloud verification using radar: What is the half-life of a cloud-fraction forecast?

- P19. Pascal Mailier: Assessing the operational skill of predictions of forecast error
- P20. Petra Roiha: Analysis of Marine Seasonal Ensemble Forecasts for the Baltic Sea
- P21. Petr Zacharov: An estimation of QPF uncertainty by forecasting the radar-based ensemble skill
- P22. Matias Armanini : Extreme temperatures verifications on Argentina forecast by NWP GFS NCEP
- P23. Monika Bailey: Verification of nowcasting methods in the context of high-impact weather events for the Canadian Airport Nowcasting (CAN-Now) project
- P24. Kadarsah Binsukandar Riadi: Reliability Evaluation of HyBMG by Using the ROC Curve
- P25. Girmaw Bogale: Rainfall prediction performance of WRF model over complex terrain of Ethiopia
- P26. Kalle Eerola: Verification of the Hirlam NWP forecasts and the connection between the scores and improvements in the model.
- P27. Ata Hussain: High resolution Regional Model (HRM) performance as NWP tool in Pakistan
- P28. Oluseun Idowu : Verification of numerical weather predictions for the western Sahel by the United Kingdom Met Office Limited Area Model over Africa
- P29. Anna Lindenberg: Applicability of Common Verification Methods for Comparisons between Measured Wind Data and Simulated Wind Field
- P30. Jordi More: The Impact of Applying Different Verification Techniques and Precipitation Analyses in QPF Verification
- P31. Maria Stefania Tesini: Verification and Statistical properties of COSMO-17 QPF
- P32. Marco Turco: The forecaster's added value in QPF
- P33. Daan Vogelesang: Verification of statistical forecasts of low visibility at the Amsterdam Airport
- P34. Ji-Won Yoon and Sei-Young Park: Verification of ensemble forecast using the physical parameterization schemes of WRF model during the Changma period over Korea
- P35. Xiaoli Li: Comparisons of global and regional ensemble prediction systems at NMC
- P36. Joel Stein and Marielle Amodei: Another look at the contingency tables: Scores based on Manhattan distances in the error space

18:00 – 19:30 Ice-breaker and Poster Session (FMI, Dynamicum Building)



Fourth International Verification Methods Workshop

Tuesday – 9 June 2009

Session 5: Verification of Weather Warnings

Chair: Tressa Fowler

- 9:00 5.1 David Stephenson: The Verification of Weather Warnings:
Did the Boy Cry Wolf or Was It Just a Sheep? (invited)
- 9:40 5.2 Martin Göber: Approaches to process and event oriented verification
of warnings
- 10:00 5.3 Michael Sharpe: The challenge of verifying severe weather warnings
- 10:20 5.4 Clive Wilson: A critical look at the verification of Met Office “Flash” Warnings
- 10:40 5.5 Marion Mittermaier: Verifying extreme rainfall alerts for surface water flooding
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11:00 – 11:20 Tea/Coffee

Session 6: Spatial and Scale-sensitive Methods

Chair: Francis Schubiger

- 11:20 6.1 Barbara Brown: Spatial Verification Methods
- 12:00 6.2 Eric Gilleland: Spatial Forecast Verification: The Image Warp
- 12:20 6.3 Chermelle Engel: A scale-based distortion metric
for mesoscale weather verification
- 12:40 6.4 Stefano Mariani: On evaluating the applicability of CRA
over small verification domains
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13:00 – 14:00 Lunch

Session 6: Spatial and Scale-sensitive Methods (cont'd)

Chair: Johannes Jenkner

- 14:00 6.5 Marion Mittermaier: Identifying skillful spatial scales
using the Fraction skill Score
- 14:20 6.6 Barbara Casati: New Developments of the Intensity Scale Verification
Technique within the Special Verification Methods Intercomparison
- 14:40 6.7 Elizabeth Ebert: Feature-specific verification of ensemble forecasts
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Session 7: Spatial and Scale-sensitive Methods: High-resolution Models

Chair: Marcus Paulat

- 15:00 7.1 Ulrich Damrath: Some experiences during verification of precipitation
forecasts using fuzzy techniques
- 15:20 7.2 Marielle Amodei: Deterministic and fuzzy verification of the cloudiness of
High Resolution operational models
- 15:40 7.3 Kees Kok: Valuing information from high resolution forecasts
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16:00 – 16:20 Tea/Coffee

Session 7: Spatial and Scale-sensitive Methods: High-resolution Models (cont'd)

Chair: Stefano Mariani

- 16:20 7.4 Chiara Marsigli: QPF Verification of Limited Area Ensemble Systems during the MAP D-PHASE OP
- 16:40 7.5 Francis Schubiger: Verification of precipitation forecasts of the MAP D-PHASE data set with fuzzy methods
- 17:00 7.6 Sami Niemelä: Verification of High resolution Precipitation forecasts by Using the SAL Method
- 17:20 7.7 Mathias Zimmer: Towards Evaluating Timing Errors of Quantitative Precipitation Forecasts with the Feature-Based Technique SAL

17:40 – 18:30 Poster Session (FMI, Dynamicum Building)

20:00 WORKSHOP DINNER (Restaurant “Töölönranta”; self transportation)



Fourth International Verification Methods Workshop

Wednesday – 10 June 2009

Session 8: Seasonal and Climate Forecast Verification

Chair: Marcel Vallée

- 9:00 8.1 Simon Mason: Towards Standardized verification of seasonal climate forecasts (invited)
- 9:40 8.2 Barbara Casati: Extreme Value theory to Analyze, Validate and Improve Extreme Climate Projections
- 10:00 8.3 Pascal Mailier: Can you really trust long-range weather predictions? Confessions of a rogue forecaster.

10:20 – 11:00 Tea/Coffee

Session 9: Tutorial Presentations

Chair: Anna Ghelli

11:00 – 13:00

13:00 – 14:00 Lunch

Session 10: New Ideas in Verification

Chair: Theresa Gorgas

- 14:00 10.1 Christopher Ferro: Verification measures for rare-event forecasts
- 14:20 10.2 Deborah Glueck: Bias in trials comparing paired continuous tests can cause researchers to choose the wrong screening modality
- 14:40 10.3 Zoran Pasaric: Polychoric correlation coefficient in forecast verification
- 15:00 10.4 Johannes Jenkner: Verification of Probabilistic Calibrations for Deterministic GFS Precipitation Forecasts

15:20 General Discussion

16:00 END OF WORKSHOP
