WWRP / WGNE Joint Working Group on Verification (JWGV)

2007-08 activities and plans

24th WGNE meeting
Montreal, 3-7 November 2008

JWGV mission

- Plan and implement verification component of WWRP
- Collaborate with WGNE, WCRP, CBS, on forecast verification
- Research and develop new verification methods, including diagnostic verification to improve models
- Training
- Promote data sharing
- Promote relevance of verification to users

http://ftp.wmo.int/pages/prog/arep/wwrp/new/Forecast_Verification.html

Who is JWGV - 2008

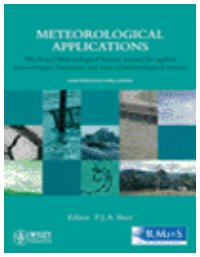
- New members in 2008: Martin Göber, Joël Stein, Marion Mittermaier
- CBS liaison - David Richardson

JWGV Membership: B. Brown (USA), H. Brooks (USA), B. Casati (Canada), B. Ebert (Australia), A. Ghelli (ECMWF), M. Göber (Germany), M. Mittermaier (UK); P. Nurmi (Finland); Joël Stein (France); D. Stephenson (UK), C. Wilson (UK), L. Wilson (Canada)

2007-08 highlights: Publications

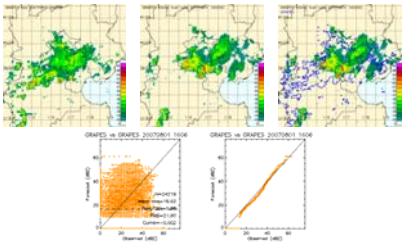
January 2008 special issue of *Meteorological Applications* on forecast verification

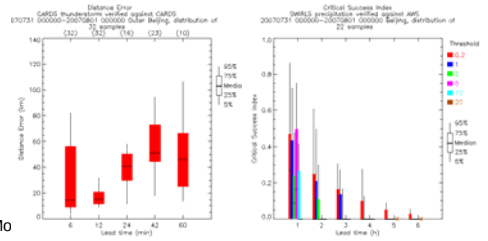
- Edited by A. Ghelli and B. Ebert
- Verification review paper authored by JWGV members
- 18 contributed papers from participants in 2007 Internat'l Verification Methods workshop



FDPs and RDPs

- Beijing 2008 Forecast Demonstration Project
  - Real-Time Forecast (nowcast) Verification (RTFV)
  - Training
- Beijing 2008 Research Demonstration Project
  - Guidance; test plan
- MAP D-Phase
- Vancouver Olympics planning
  - Forecast verification

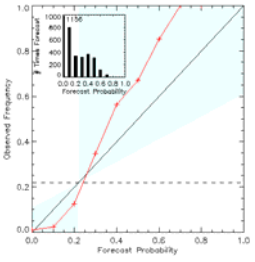




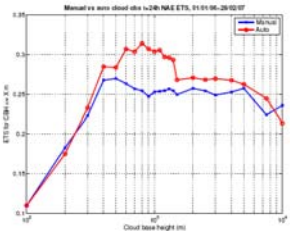
Methodology documents

- Verification methodology documents – primarily intended for WGNE forecast evaluations
  - Precipitation Verification (2004)
  - **Revised version includes probabilistic forecast verification (2008)**
  - Cloud Verification (in progress)

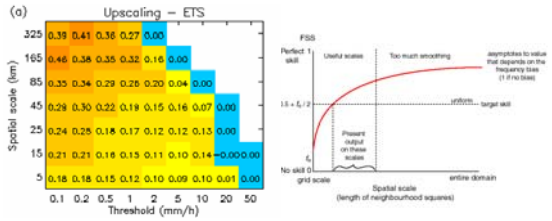
Reliability diagram for PQPF



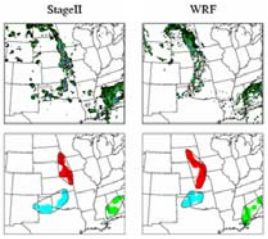
ETS for cloud-base height



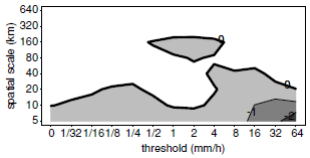
Spatial Verification Method Intercomparison Project



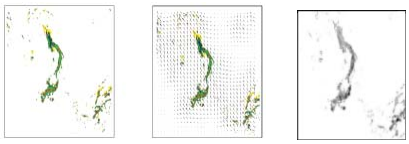
Neighborhood (fuzzy) methods (13)



Features-based methods (7)



Scale separation methods (1)

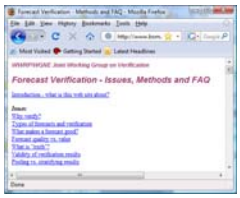


Field verification methods (2)

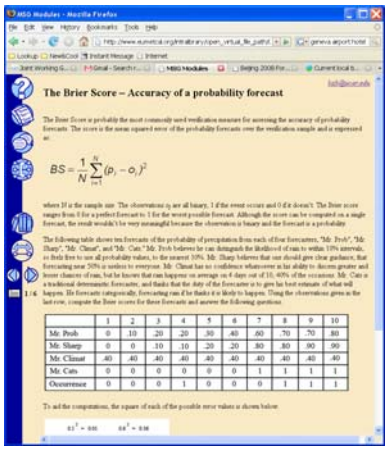
More information and some code available at
http://www.rap.ucar.edu/projects/icp/index.html

Outreach

- EUMETCAL training modules (P. Nurmi and L. Wilson)
  http://www.eumetcal.org.uk/eumetcal/verification/www/english/courses/msgcrs/index.htm
- Verification web page



- Tutorials (traveling and on-site)



2008-2009 plans

- FDPs and RDPs
  - Beijing 2008 FDP: real-time + follow-on analyses
  - Vancouver 2010 RDP: Planning; development of tools
  - Shanghai MHEWS 2010: ?
- JWGV meeting
  - 1-3 December 2008, Shanghai
  - Combined with WWRP Mesoscale Forecasting WG
- Scientific workshop and tutorial
  - 4-10 June 2009 at FMI / University of Helsinki
- Outreach
  - Other tutorials… on the road
  - Web site update
- Collaboration with other groups
  - WGCM
  - WGSIP