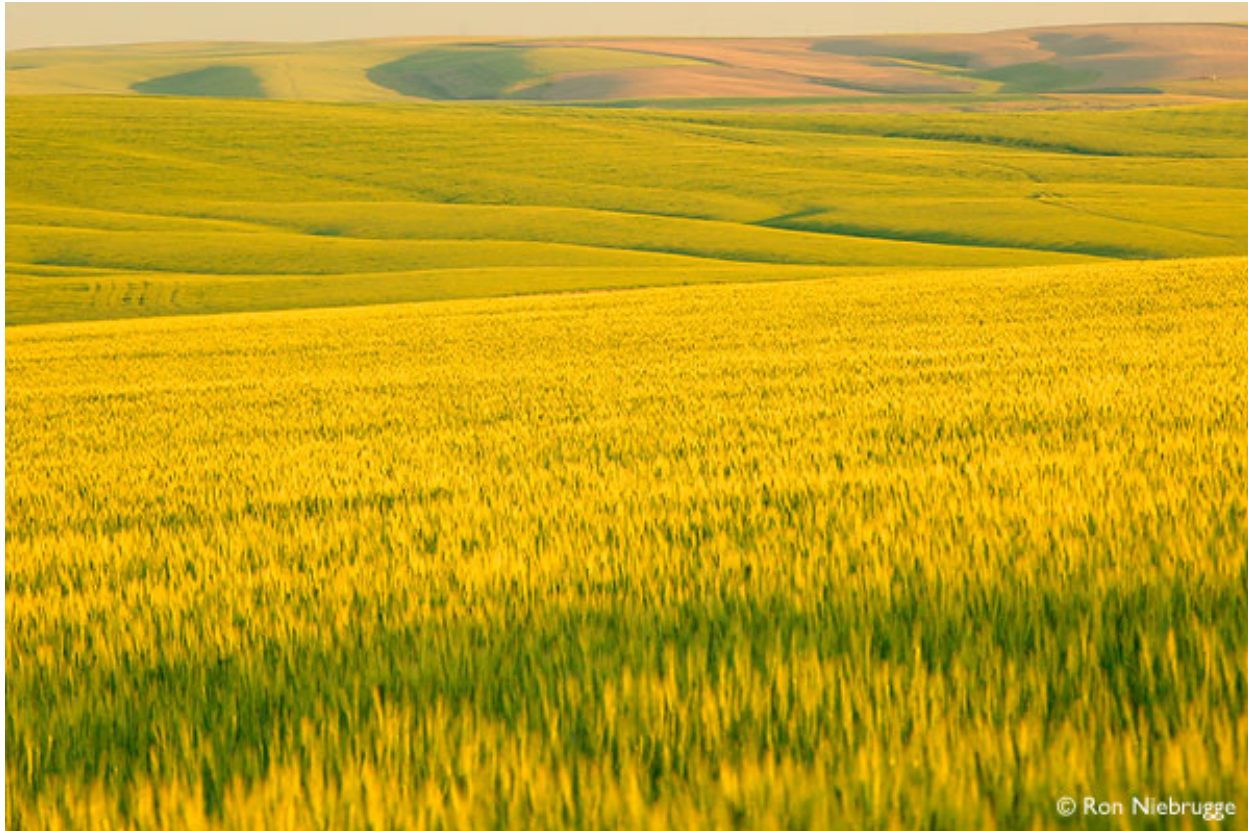


Spatial forecast verification

Its place in the WVT



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Coming up . . .

Beth Ebert: Spatial Verification Methods

Chris Davis: Diagnostic Evaluation of Mesoscale Models



Breakout Discussion

Tradition in the Face of the New Fangled

1. Do the traditional continuous and categorical scores have a place in verifying high resolution model forecasts? If so, how should they best be used?



Displaced in the Field

2. Some new methods provide fields of displacement vectors—how can this information best be used? Is it useful to combine distance and intensity errors into a single metric (e.g., Venugopal *et al.* 2005, Keil and Craig 2007)?



Adapting to the times

3. How can spatial verification methods be adapted to incorporate the time dimension?



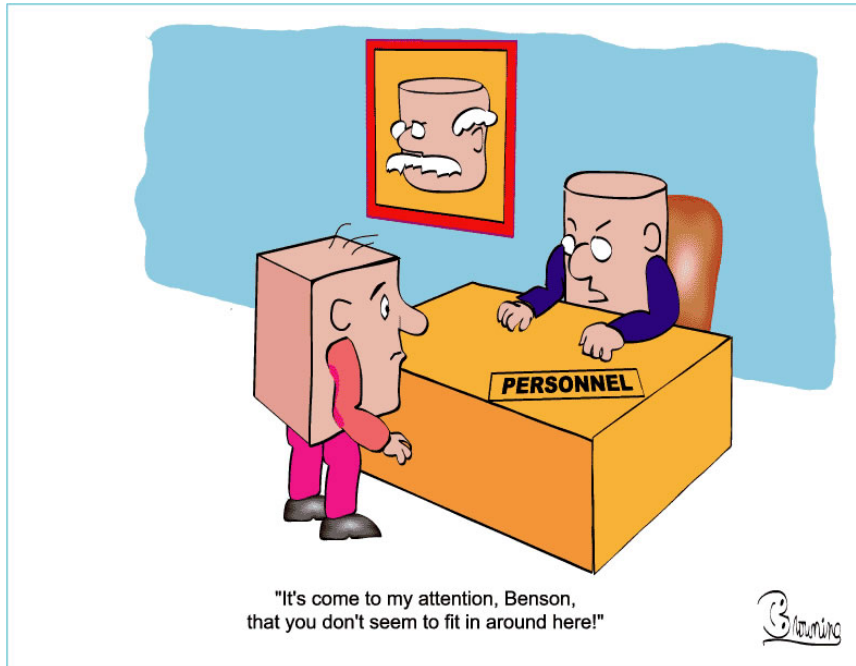
Pedagogy

4. How can results from diagnostic verification methods be explained to administrators or non-scientists? Is this important?



Errors in objectifying images

5. When using object-based verification methods, how do errors in object matching impact upon the interpretation of verification results? Is it important that matched objects be physically similar?



Aggregating object results

6. How should results from object-based methods be aggregated?



Cross-cutting

7. Are there additional methods from the image processing community as used in medical, land use, motion picture, and military applications that can be applied to spatial verification in meteorology?



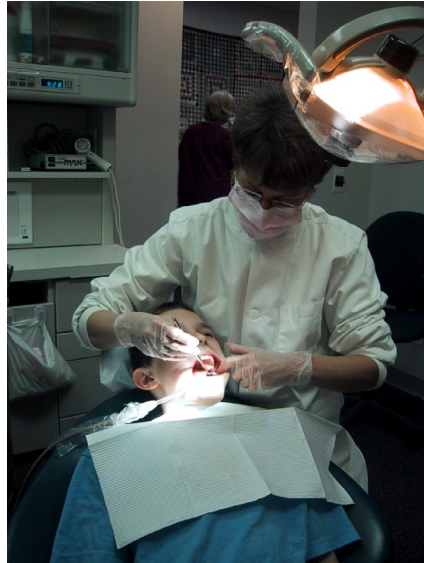
Non-stationarity and anisotropy

8. Should spatial verification methods account for variations and/or directionality in surface properties (land/sea, topography)? If so, how?



Parameter tune ups

9. Some of the newer diagnostic methods have tunable parameters. How should they be treated in routine automated verification?



Resolving the Grains

10. What granularity of forecast and observation data (i.e., spatial and temporal resolution) is required to apply spatial approaches and methods for evaluation of spatial forecasts?