

Forecast Monitoring and Short-term Updates

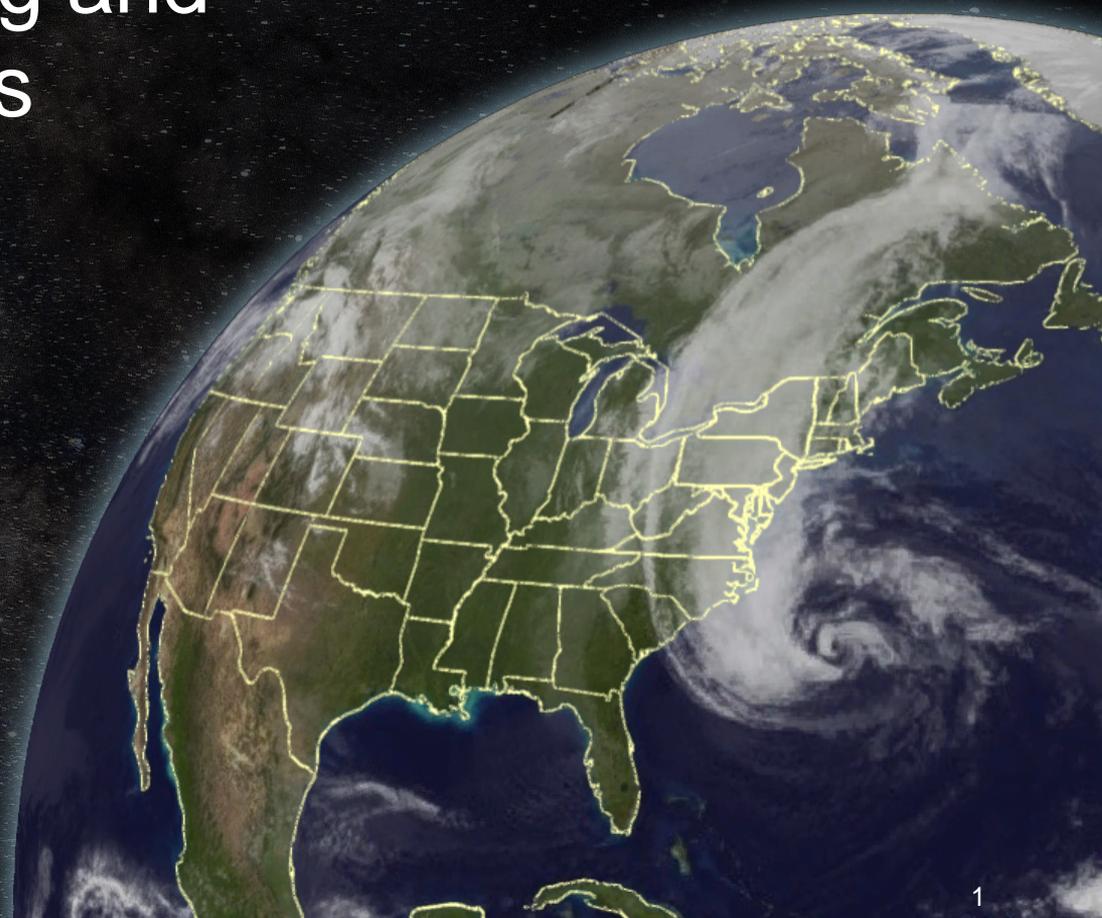
Kevin Manross

CIRA

Performing work for ESRL/GSD

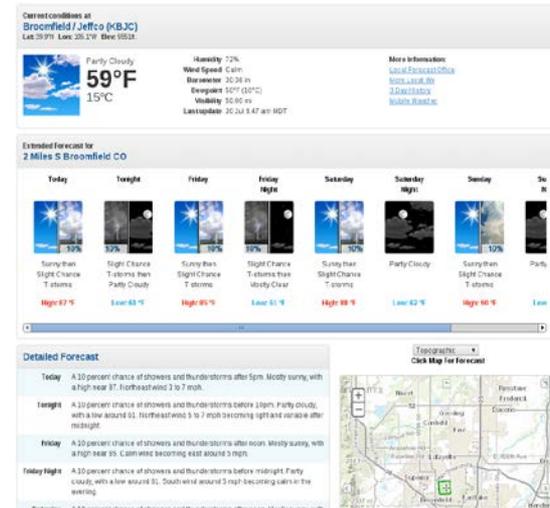
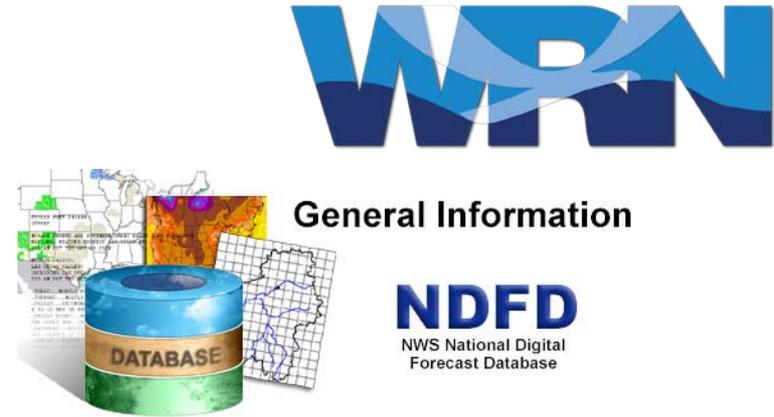


GSD Science Review
3-5 Nov 2015



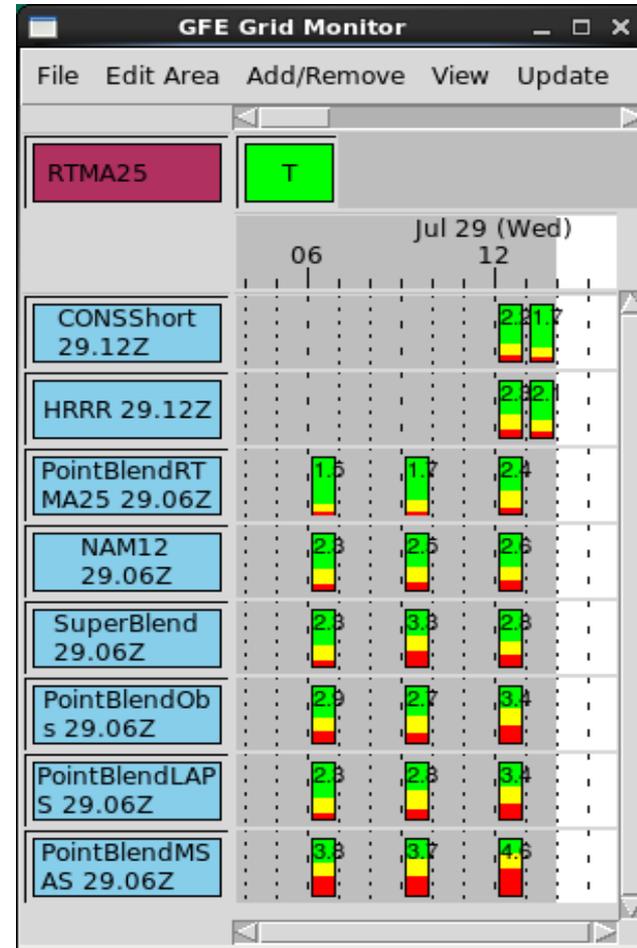
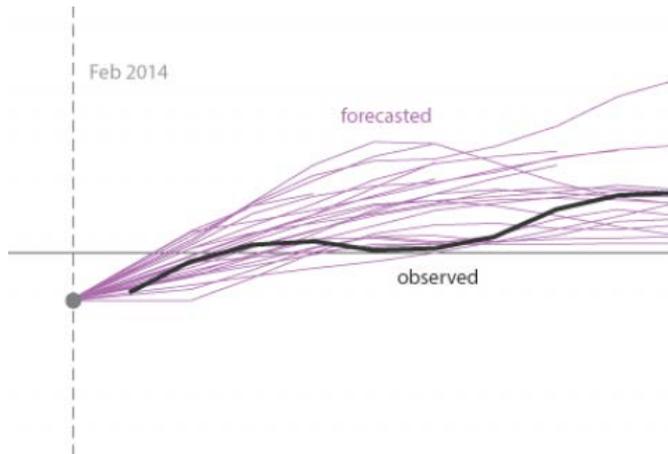
Forecast Monitoring & Short Term Updates

- The first point mentioned in the Weather Ready Nation Roadmap is to “**shift from product-focused service to interpretation and consultation**”
- Requires maintaining a high-level of forecast **accuracy** while **reducing workload** in **maintenance** of forecast grids
- GSD continues to develop tools to aid the forecaster **quickly assess** forecast verification trends and to **correct** them when necessary.



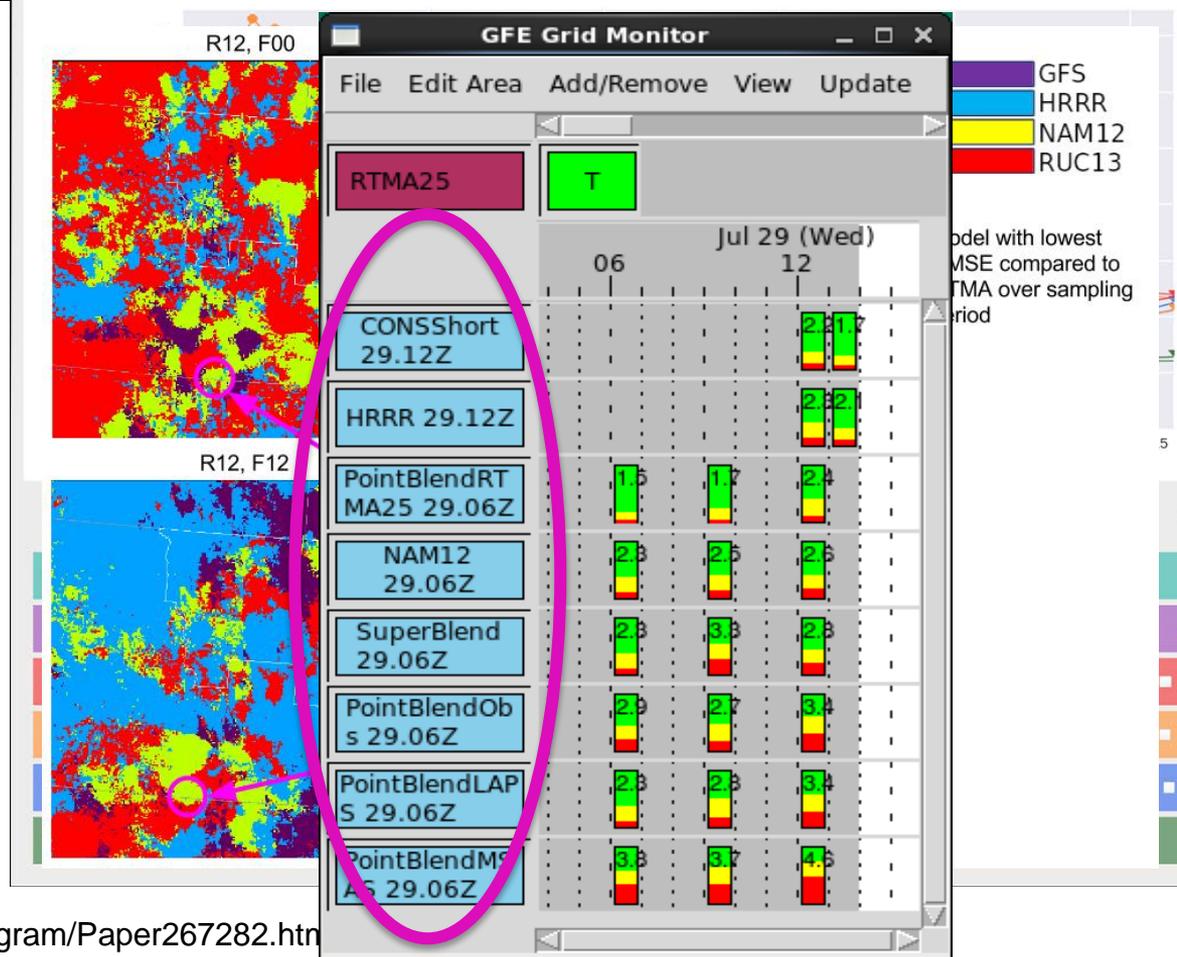
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- Even the best forecasters “bust”
- Catch “drift” (from verification) of forecast grids early
- **“Grid Monitor”** is a tool to quickly asses (qualitatively and quantitatively) which guidance option is verifying best in the *short term*



Forecast Monitoring & Short Term Updates

- Offer best option (Grid Monitor Choices) for updating a forecast
- “**Point Blender**”: Use best performing model at *each gridpoint* to minimize forecast error
- Point Blender Covers 0-24 time period
- “National Blend of Global Models Project¹” covers days 3-8

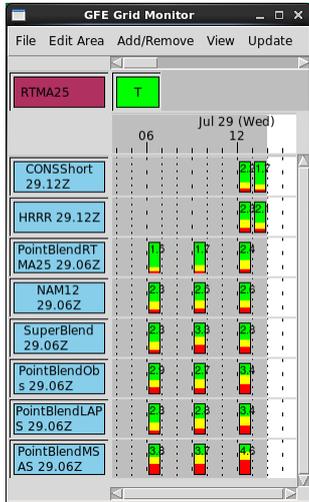


1 - <https://ams.confex.com/ams/95Annual/webprogram/Paper267282.htm>

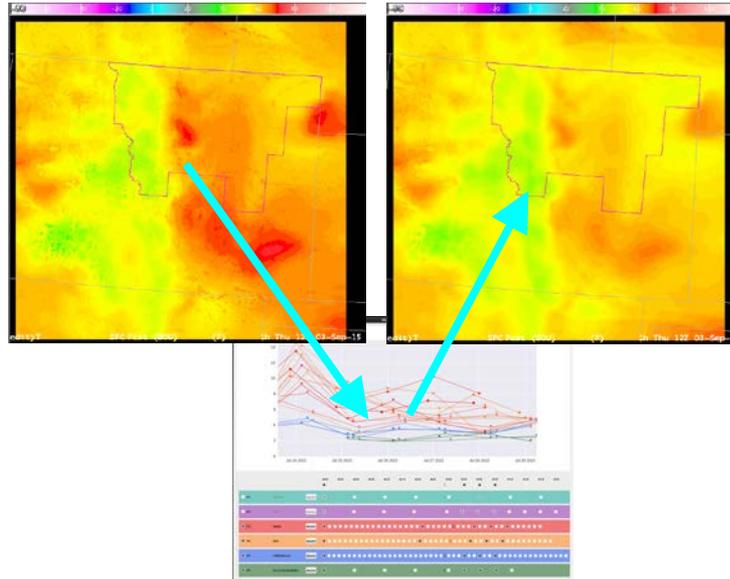
Summary



Assess



Update



These tools would minimize tedium workload on the forecaster and allow her or him the freedom to focus on more intensive service-oriented responsibilities (warning operations and communication)



A poster is available and will elaborate on details of each tool.