Network-Enabled Verification Service (NEVS)
Improving the Quality of Weather Forecasts for Operational Decisions
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Solution: NEVS

- On-demand delivery mechanism for user-specific performance information
- Utilizes relational database technology to integrate weather data with operational decision criteria to produce user-specific performance metrics

An Aviation Traffic Planner's View of Performance
Better forecasts when and where it matters most is the ultimate goal of aviation forecasting

Strategic Planning Context
NEVS integrates impact information with forecast quality to present results from a user's perspective.
- Top figure - air traffic impact integrated with forecast quality for three forecasts
- Bottom figure - time series presenting skill of high impact cases
- Confidence intervals included on both figures to facilitate interpretation of measures
- Balanced comparison constructed via event equalization, accounting for issues of data availability

Increasing Lead-time and Accuracy
NEVS provides:
- Real-time warnings to ATM decision tools regarding performance of weather forecasts used in operational decision making
- Historical performance record in the context of a user's application
- Net-enabled engineering technology

Aviation Impacts
- Machine-to-machine delivery of forecast quality information
- Improved forecast quality for better operational decision making
- On-the-fly forecast adjustments for operational aviation integration

Collaborations
- Federal Aviation Administration Research and Operations
- National Weather Service
- National Center for Environmental Prediction / Aviation Weather Center
- Federal Aviation Administration William J. Hughes Technical Center
- Industry partners