Aviation Forecasting with AWIPS

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GSD Science Review
3-5 Nov 2015
Mission Supports:

General Aviation,

Commercial Aviation,

USAF/Vandenberg Launch Facility
Science, Technology, and Operational Challenges

Science Challenges:

– Sparse observational network, especially west of the Mississippi
– NWP guidance for aviation parameters (e.g. ceiling, visibility, turbulence, icing, etc.) is not particularly good.
– Ceiling and visibility can change rapidly and repeatedly.
– Aircraft emergencies, air rescue, etc. don’t always occur around airports.
Science, Technology, and Operational Challenges (continued)

**Technology Challenge:**
- Provide improved forecaster tools for generating the information that goes into Aviation products (e.g. TAF’s) generated by NWS

**Operational Challenge:**
- Integration with other NWS forecast components for seamless and meteorologically consistent information.
- Coordination/collaboration between National Centers and WFO’s
Summary

• Significant scientific, technological, and operational challenges exist.

• We are working closely with NWS management, and forecasters at national, regional and local level to streamline the process and improve aviation forecast information.

• Poster will summarize past evaluations, current capabilities, planned enhancements, and future evaluations.