

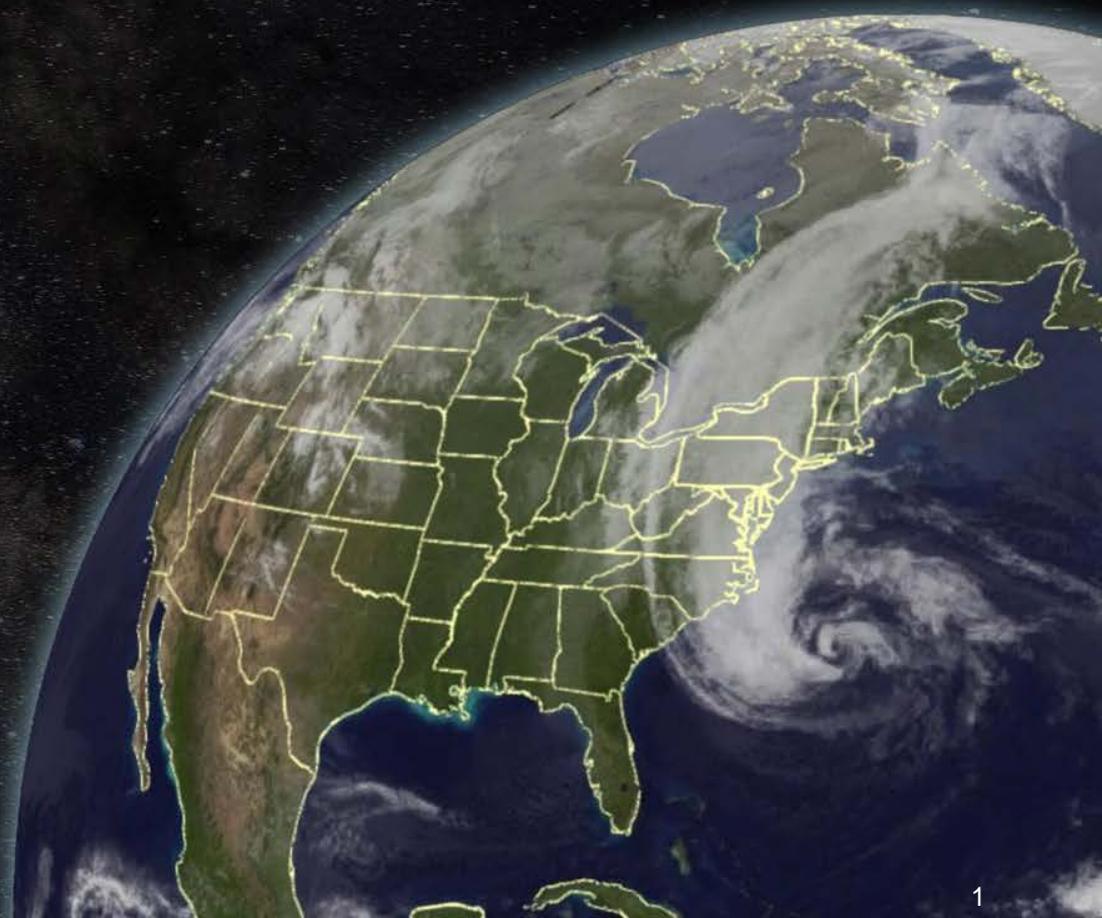
# Aviation Forecasting with AWIPS

Woody Roberts

NOAA/ESRL/GSD



GSD Science Review  
3-5 Nov 2015





# Mission Supports:

***General Aviation,***



***Commercial Aviation,***



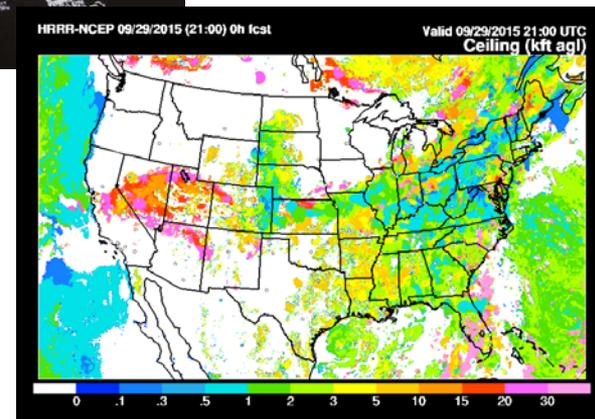
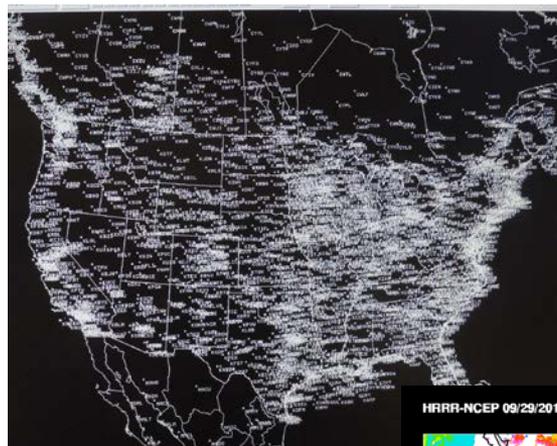
***USAF/Vandenberg Launch Facility***



# 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.

