

HEMS Tool

Friends and Partners in Aviation Weather '08

Eric C. Lugger (Leader)
Safety Manager
Air Methods Corp.

(303) 888-4513

elugger@airmethods.com

Paul Herzegh, PhD
Lead Scientist, NC&VA
NCAR

303-497-2820

herzegh@ucar.edu

J. Heffernan
Dir. of Safety
Helicopter Assoc. Int'l
(703) 683-4646 x 133

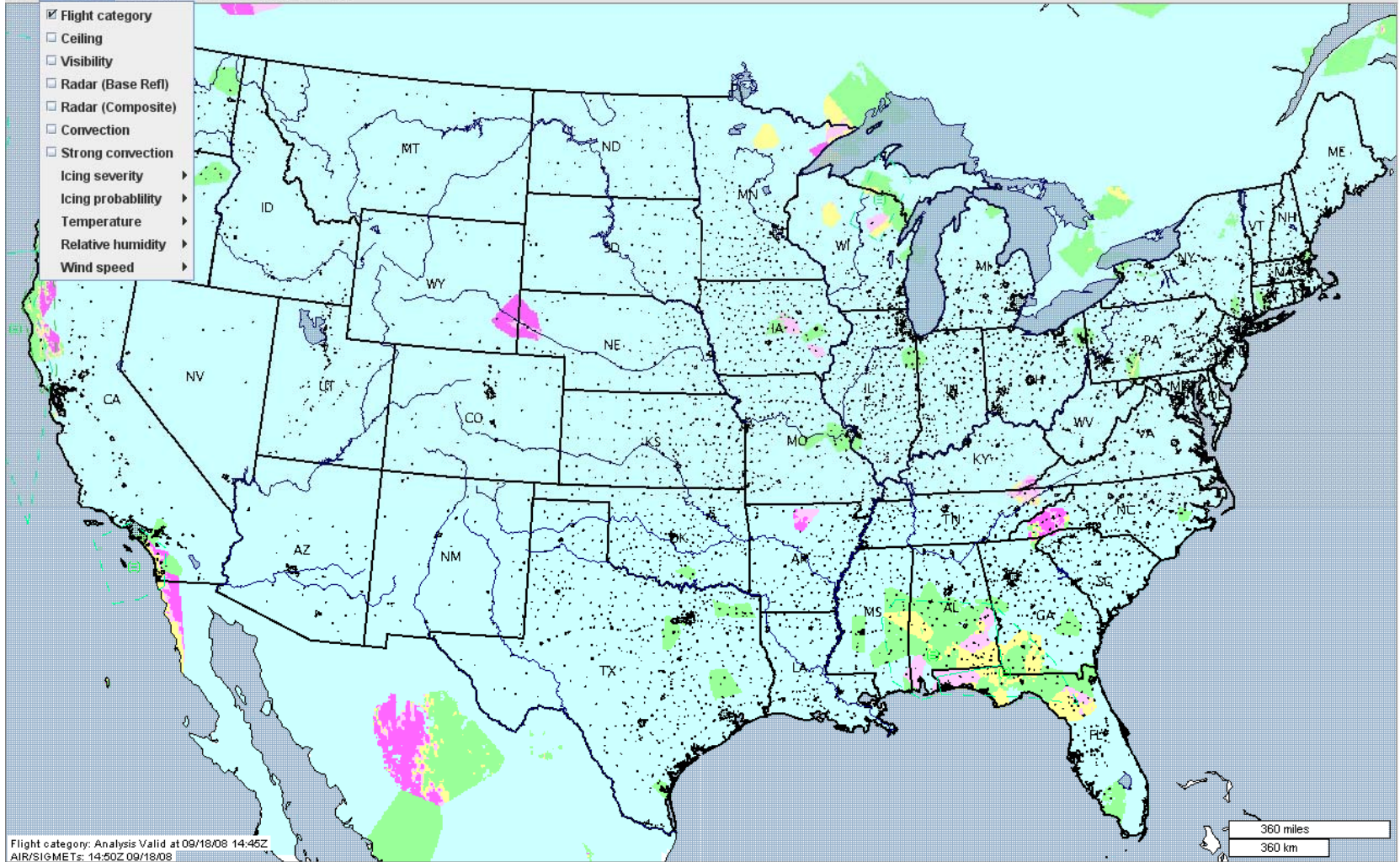
j.heffernan@rotor.com

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Helicopter Emergency Medical Services (HEMS) Tool

- Funded by the FAA
- Developed by NCAR-RAL and released Nov 2006
- Maintained by NCAR on Experimental ADDS
- Restricted use to HEMS Pilots and supporting Operational Control Centers
- May only be consulted for a “no go” decision
- Movement toward an Operational Product is static
- Keys to progress are **funding** for the Forecast NC&VA research and **funding** for development of the next version of the HEMS Tool

- Flight category
- Ceiling
- Visibility
- Radar (Base Refl)
- Radar (Composite)
- Convection
- Strong convection
- Icing severity ▶
- Icing probability ▶
- Temperature ▶
- Relative humidity ▶
- Wind speed ▶



Flight category: Analysis Valid at 09/18/08 14:45Z
AIR/SIGMETs: 14:50Z 09/18/08

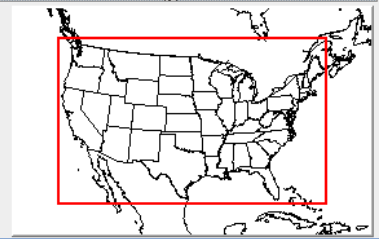
Possible Observation LIFR IFR MVFR VFR

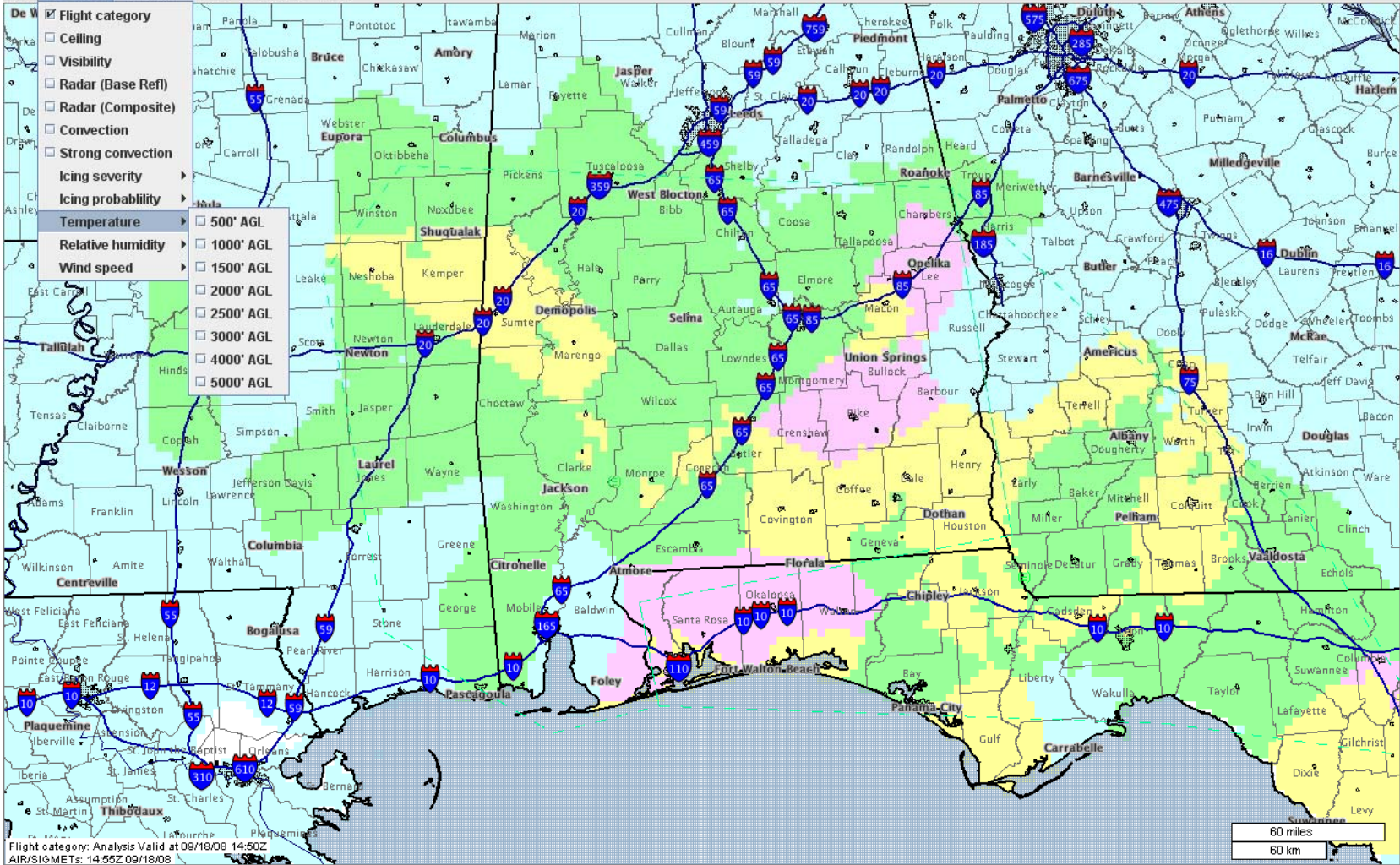
Flight Category

12:00Z 12:15Z 12:30Z 12:45Z 13:00Z 13:15Z 13:30Z 13:45Z 14:00Z 14:15Z 14:30Z 14:45Z 15:00Z 15:15Z 15:30Z 15:45Z

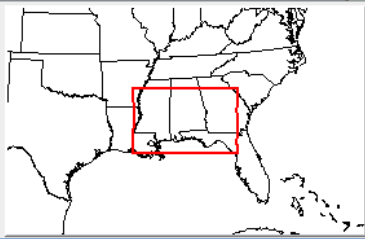
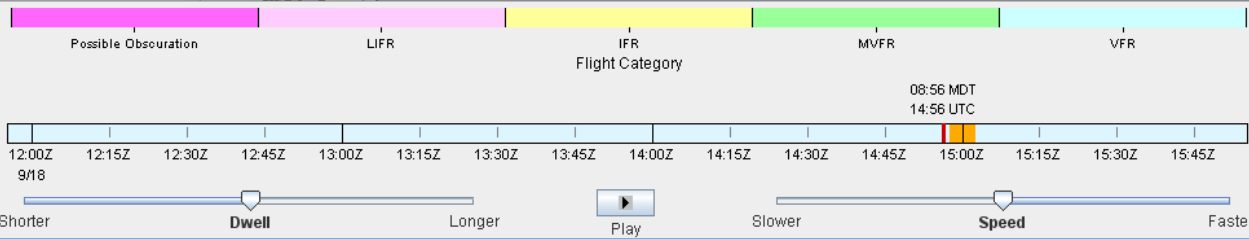
9/18

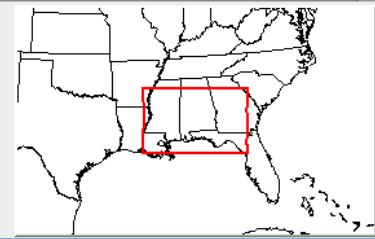
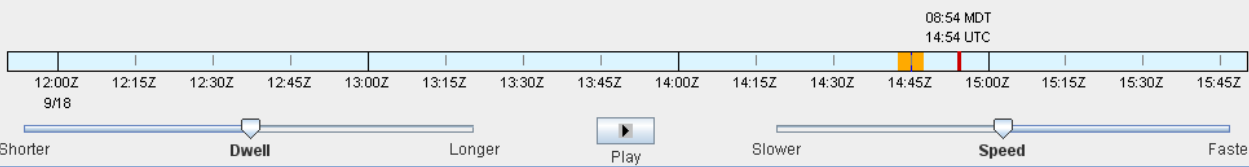
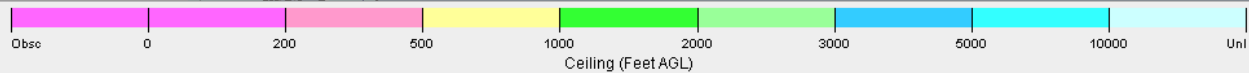
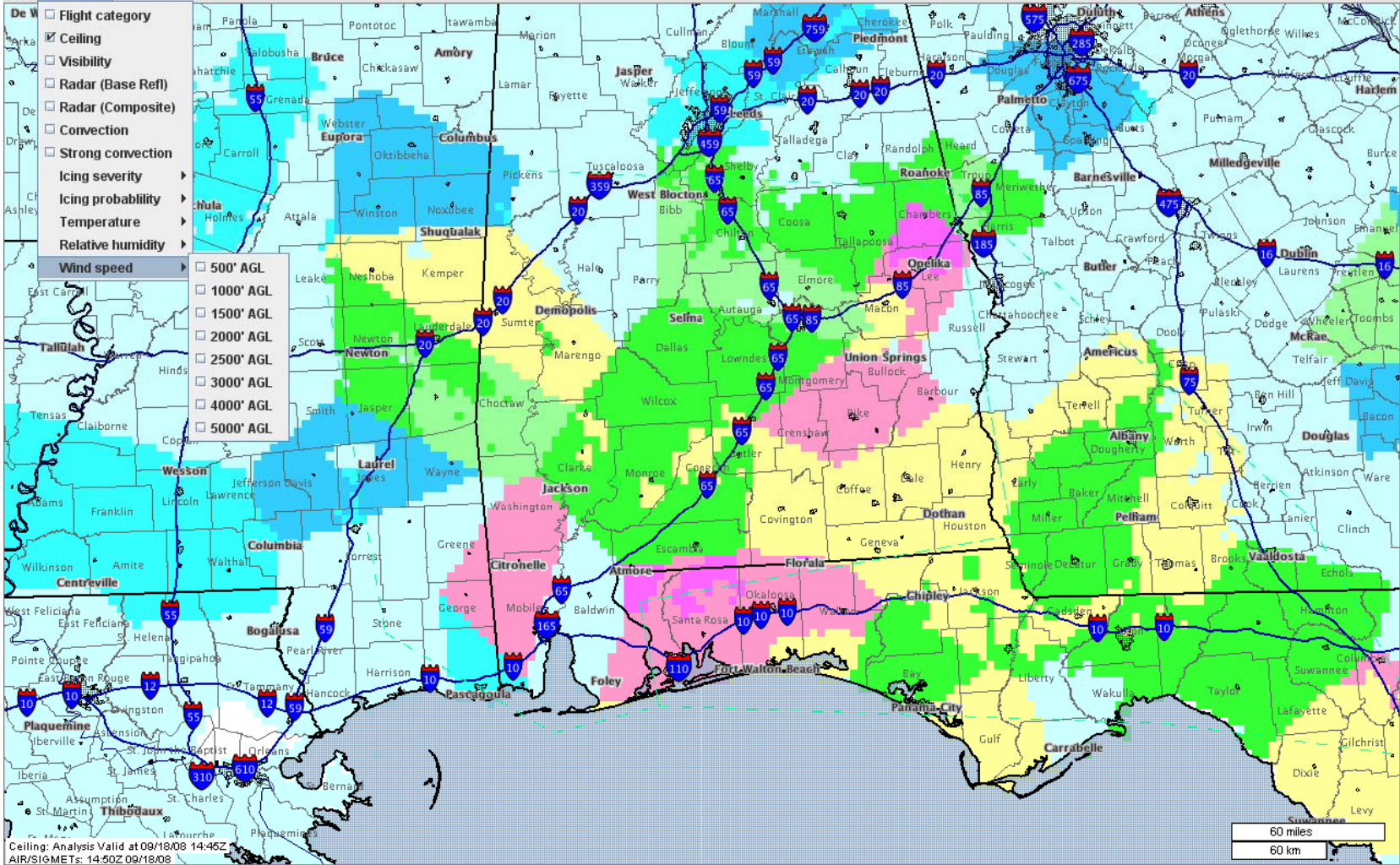
Shorter Dwell Longer Play Slower Speed Faster





- Flight category
- Ceiling
- Visibility
- Radar (Base Refl)
- Radar (Composite)
- Convection
- Strong convection
- Icing severity
- Icing probability
- Temperature
 - 500' AGL
 - 1000' AGL
 - 1500' AGL
 - 2000' AGL
 - 2500' AGL
 - 3000' AGL
 - 4000' AGL
 - 5000' AGL
- Relative humidity
- Wind speed

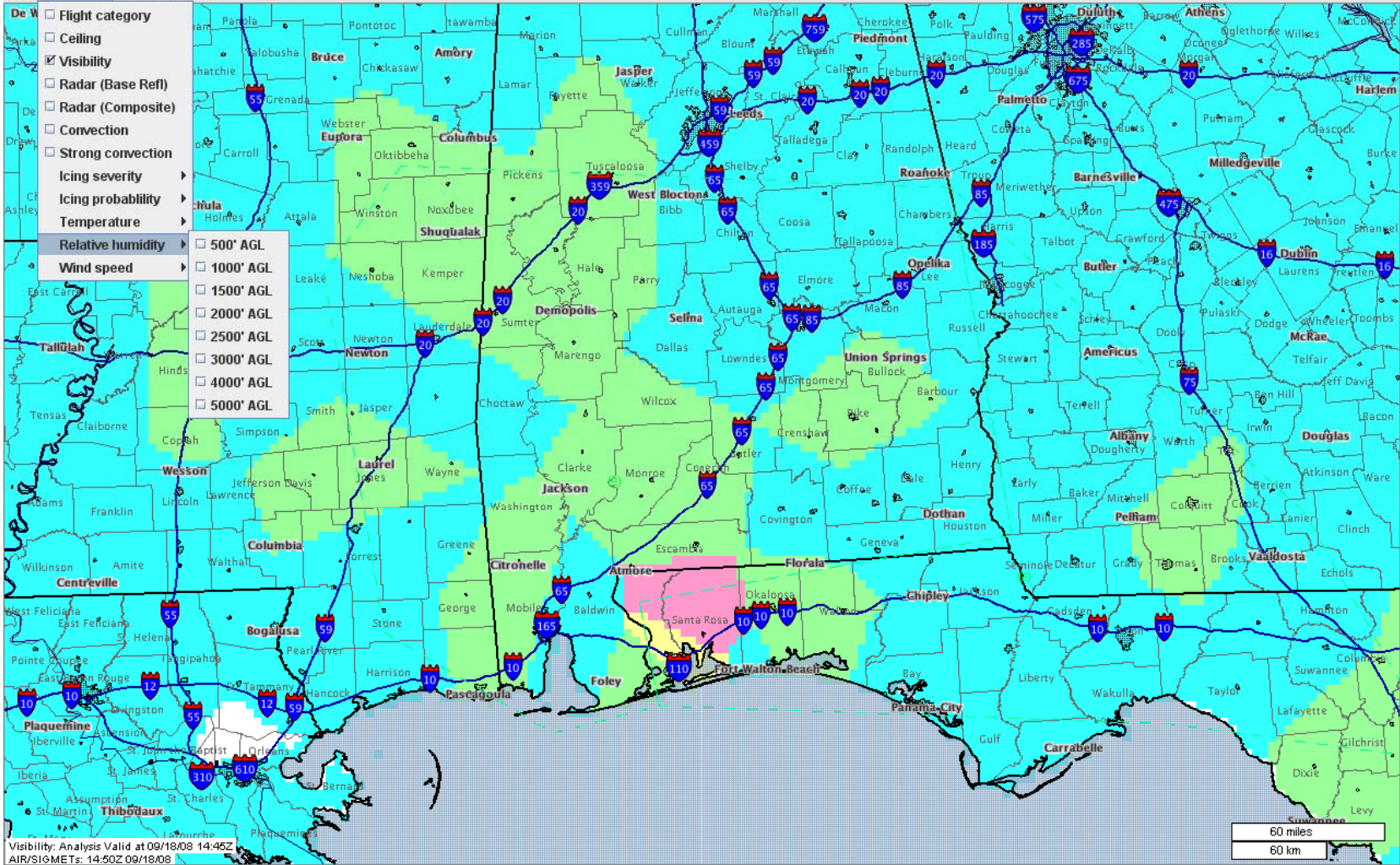




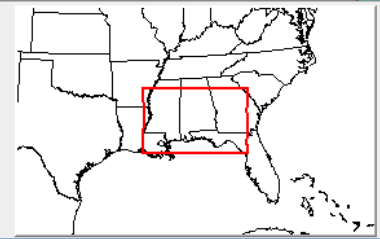
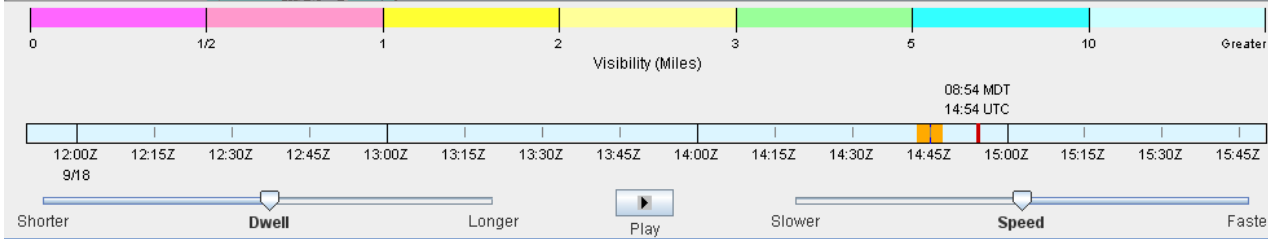
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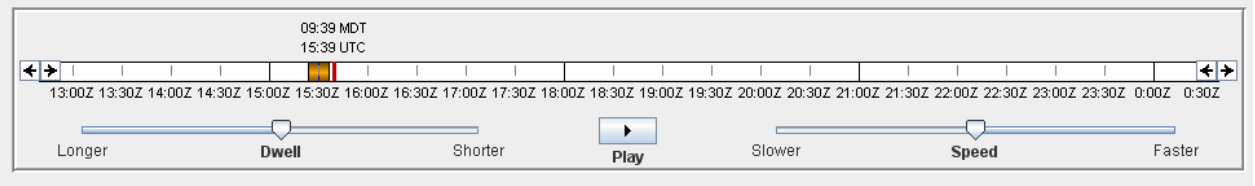
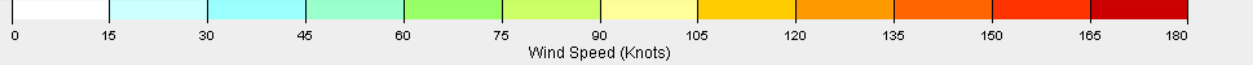
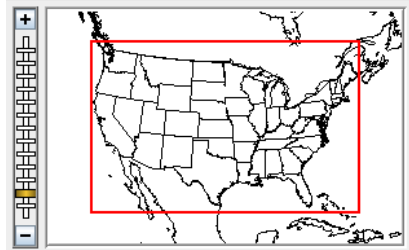
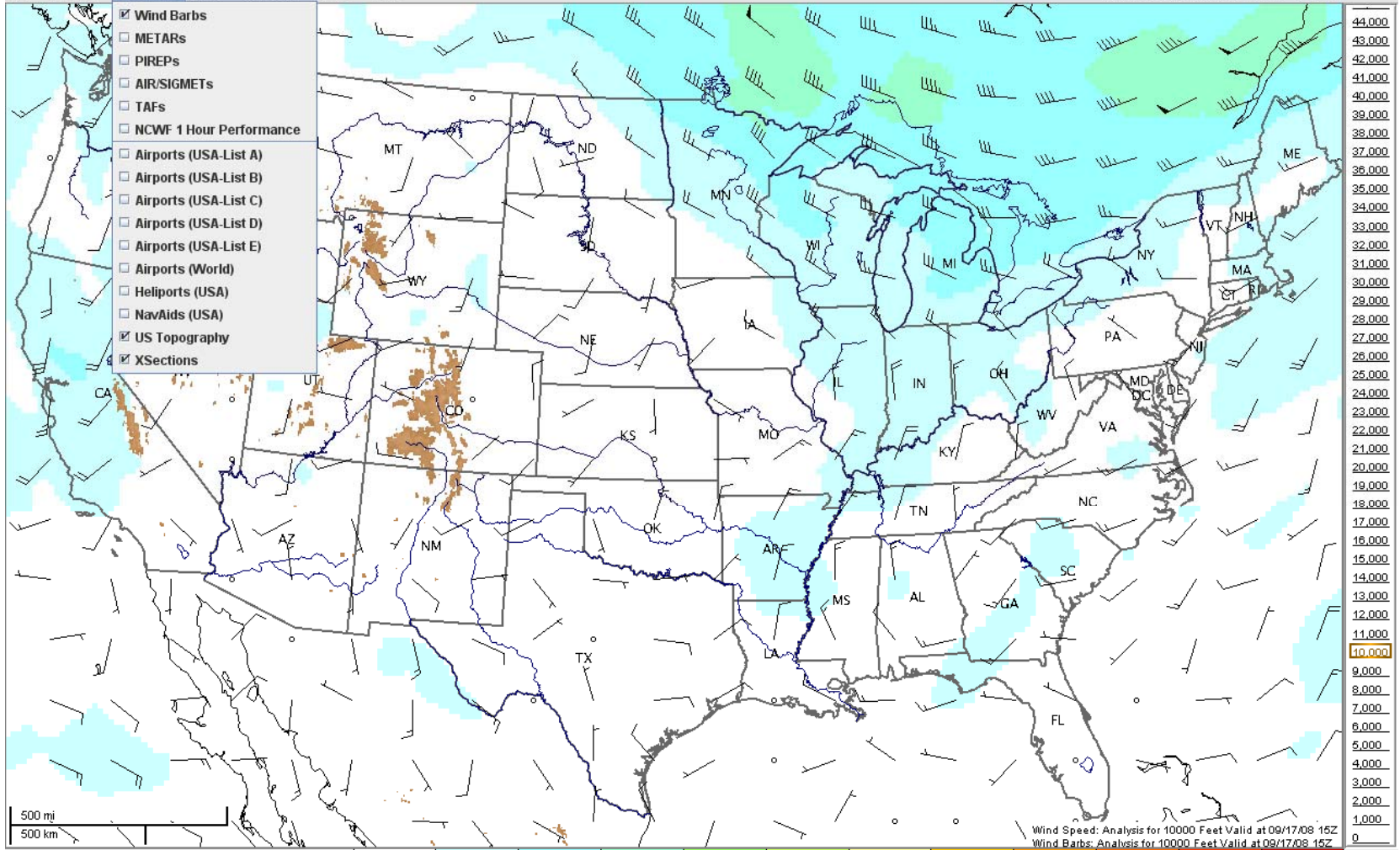
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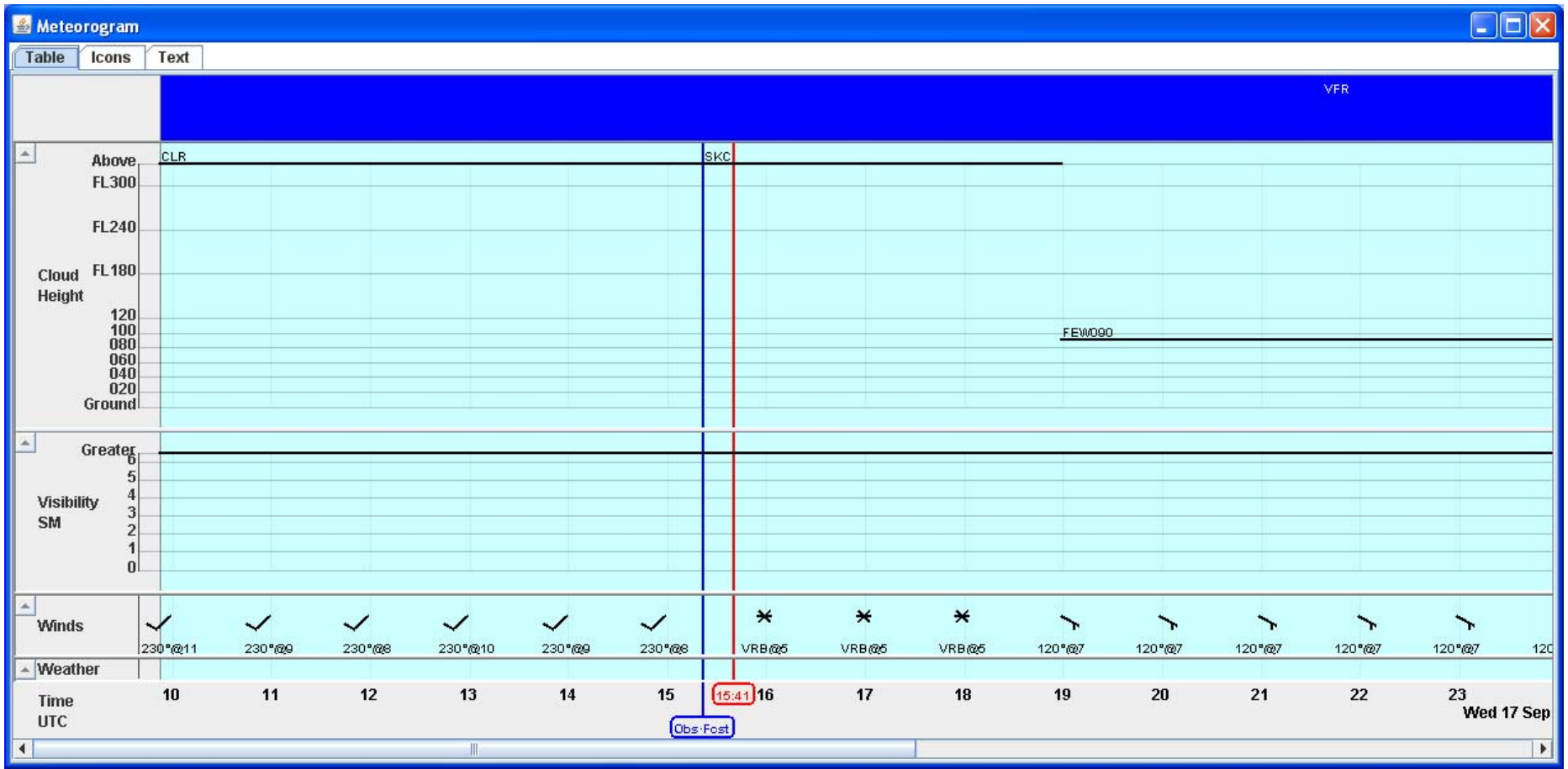
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Presented Oct 9, 2008

Operational Product

- Moving forward in HEMS Tool development
 - Funding estimates = initial \$250K
 - Probable full Operational Functionality=\$500K total (plus or minus)
- Merge the HEMS Tool into the ADDS Flight Path Tool (it is full operational status)
- More surface observations improve the gridded data reliability (State owned AWOS)

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