

## Aviation Weather Hazard Characterization System (AWHCS)

### PROGRAM/PROJECT:

**LEAD AGENCY:** Oklahoma University Center for Analysis and Prediction of Storms (CAPS)

**LEAD AGENCY POINT OF CONTACT:** Dr. Kelvin Droegemeier, Director, Center for Analysis and Prediction of storms, 405-325-0453, kkd@ou.edu

**PROGRAM POINT OF CONTACT:** Dr. Kelvin Droegemeier, Director, Center for Analysis and Prediction of storms, 405-325-0453, kkd@ou.edu

### SERVICE AREA(S)/INITIATIVE(S)

- **National Aviation Weather Initiative:**  
N/A

### FUNDING

- **Programmed/Planned (\$'s/FY):** /FY03 /FY04

### TYPE OF PROGRAM/APPLICATION

Product Development

### SCOPE OF PROGRAM/PROJECT

- **What's being developed, procured, etc.:** a capability of assimilating observations from contiguous NEXRAD radars, along with data from other remote sensing platforms, to create a three-dimensional, gridded database of atmospheric variables to generate an analysis of aviation weather impact variables including icing, turbulence, and convection.
- **How operations will be changed/improved:** provides a very detailed depiction of weather parameters over a selected region and can be implemented nationally. Data and products could be unlinked for use by pilots.

### PROGRAM/PROJECT MANAGEMENT

- **Basic guidance document for this program:** Program plan developed by the Center for Analysis and Prediction of Storms with collaborators at the National Center for Atmospheric Research, MIT/Lincoln Laboratory, and the NOAA Forecast Systems Laboratory.
- **Program/Project verification process:** N/A
- **Method used for end product validation:** N/A
- **Operational training for the user:** Hands-on instruction with tutorials.

### SCHEDULE/IMPLEMENTATION

- **Next major program milestone:** N/A
- **When program will become operational:** N/A
- **Plans for further improvements:** N/A