Aviation Weather Center and Testbed Kansas City, MO

March 22, 2010

Why AWC & Kansas City?

- 600 combined years of Aviation Forecasting Experience
- Experts in Aviation Weather R↔O
- Successful Partnerships
- True Operational Environment
- World-Class Information Technology
- Space for enhanced Testbed Facility to support NextGen

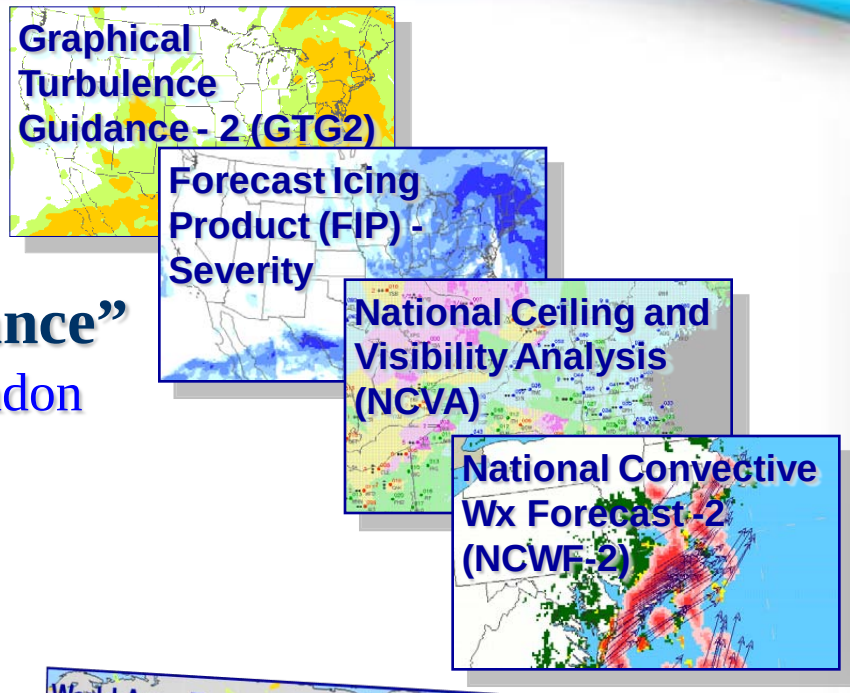
Why AWC & Kansas City?

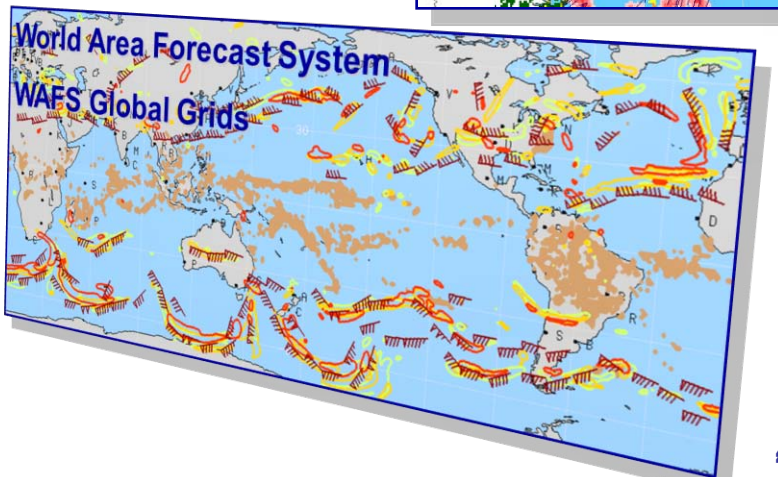
- AWIPS 2 Operational Test & Evaluation Site
- Within 50 miles Two WFOs, Central Region, ARTCC/CWSU, and Training Center
- Cost Effective Solution
- Well-Developed Testbed Model

3

Research-to-Operations (R↔O)

- AWRP Algorithms
  - GTG, CIP/FIP, NCVA, NCWF
- National Weather Service
  - WAFS Global Grids "High Glance"
    - FAA & WAFCs Washington & London
  - Integration of hourly SREF & Enhanced Thunder into CCFP
    - NCEP: SPC, NCO & EMC
  - Space Weather effects/hazards on aviation
    - NCEP: SWPC
- Enhanced CWSU Decision Support Software





Criteria for Successful Research to Operations

Operations to Research means keeping these in focus

Demonstrated Benefits

Efficiency

Sustainability

IT compatibility

Necessary Conditions

Must work with operational environment

Use operational data sets

R⇔O Priorities

New Science for Meteorologists

Enabling Data for NextGen Weather

Transition Meteorologists to NextGen Decision Support

Human Factors – Does Presentation Improve Decision Making