Welcome

MDSS Stakeholder Meeting

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NATIONAL CENTER
FOR
ATMOSPHERIC RESEARCH
OPERATED BY
THE UNIVERSITY CORPORATION FOR
ATMOSPHERIC RESEARCH
UNDER SPONSORSHIP OF
THE NATIONAL SCIENCE FOUNDATION
UCAR
(University Corporation for Atmospheric Research)

- Non-profit corporation formed in 1959 to serve the atmospheric and related science and education community
- $155 million annual research funding (90% government)
  450 scientists in 1200 person organization
- 66 Member North American universities; 39 International affiliate institutions
Research Applications Program

“Science in Service to Society”

• **Mission:** To *develop and transfer knowledge and technology* to US government agencies, the private sector, and foreign governments
  – Expand the reach of atmospheric science into weather-sensitive human endeavors
  – Weather-related goods and services
  – Weather information for decision makers

• **Approach:** *normal business practices*, including
  – Performance as promised
  – Emphasis on quality
  – Discussions regarding the “art of the possible”
  – Attention to customer needs
RAP Technology Transfer

• Advanced algorithms or software
• Turn-key hardware/software systems
• Education
• Training
• Expert advice
• Capability examples:
  – Numerical weather prediction
  – Storm and precip nowcasting
  – Hydrologic modeling
  – Remote sensing
  – Aviation specific: icing, turbulence, wind shear, oceanic weather
  – Fully automated, point-specific weather forecasts
• Decision Support Systems
RAP application sectors

- Aviation Weather
- Defense and national security applications
- Hydrometeorology
- Surface Transportation
- Forecast improvements for the public
- Fledgling programs in Fire Weather, Air Quality, Agriculture
RAP project locations