

Welcome



MDSS Stakeholder Meeting

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Research Applications Program**

**National Center for Atmospheric Research
Boulder, Colorado**

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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**

NCAR Divisions



NCAR

NCAR

ACD

ATMOSPHERIC CHEMISTRY
DIVISION

ASP

ADVANCED STUDY PROGRAM

ATD

ATMOSPHERIC TECHNOLOGY
DIVISION

CGD

CLIMATE & GLOBAL DYNAMICS
DIVISION

ESIG

ENVIRONMENTAL & SOCIETAL
IMPACTS GROUP

HAO

HIGH ALTITUDE OBSERVATORY

MMM

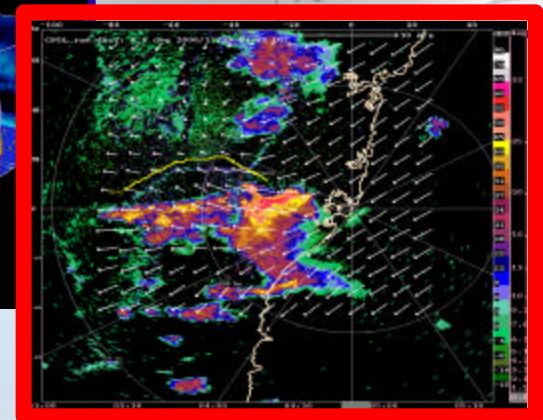
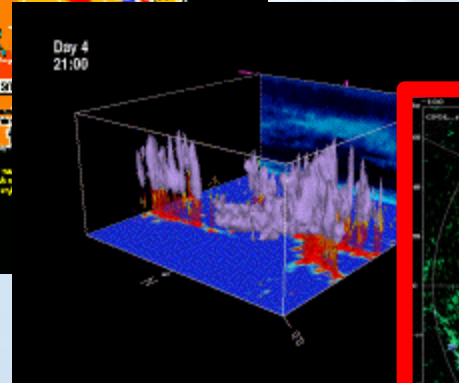
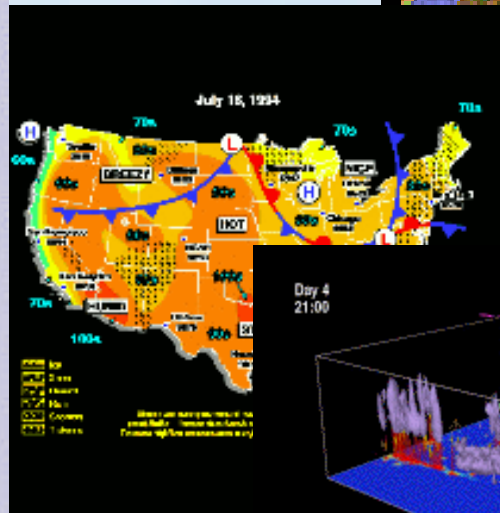
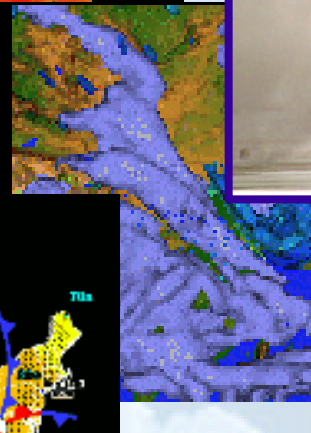
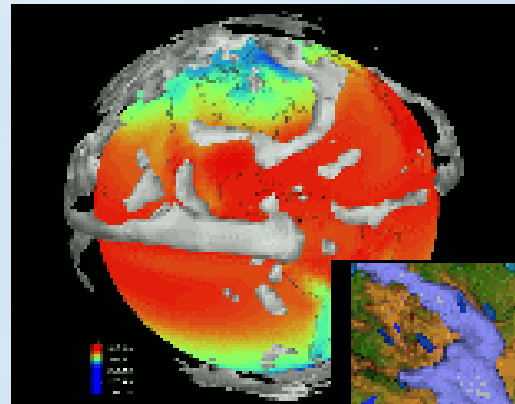
MESOSCALE & MICROSCALE
METEOROLOGY DIVISION

RAP

RESEARCH APPLICATIONS
PROGRAM

SCD

SCIENTIFIC COMPUTING
DIVISION



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

