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# Office of the Federal Coordinator for Meteorological Services and Supporting Research (OFCM)

## Leveraging Road Weather Partnerships to Improve Services & Capabilities

Clarus / MDSS Stakeholder Meeting  
Albuquerque, New Mexico  
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# Overview

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- **Who is OFCM?**
- **OFCCM coordination and collaboration activities linked to road weather capabilities**
  - **NOWCON Federal Response Update**
  - **4D Weather Cube (NextGen) Overview**
  - **NextGen Aviation Weather R&D Plan**
  - **Re-engage OFCCM WIST Working Group**



# OFCM Mission

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To ensure the **effective use** of federal meteorological resources by leading the **systematic coordination** of *operational weather requirements, services, and supporting research*, among the **15 stakeholding federal agencies and offices**.

## High-Level Focus:

- Address needs, issues, and problems
- Resolve differences, find common threads
- Leverage partnerships and collaboration
- Studies, reports, plans, and handbooks
- Crosscut reviews, assessments, and analyses

**Strengthen science and research ↔ Improve products and services**

# Integrating Across the Road Weather Community

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- OFCM leading coordination and collaboration on a number of activities with direct linkages to road weather capability
  - **NOWCON**
  - **NextGen Aviation Weather R&D Plan**
  - **WIST Working Group**
  - **National Space Weather Program**
  - **Multifunction Phased Array Radar**
  - **Joint Urban Testbeds**
  - **Social Science Integration**
  - **Data Assimilation & Numerical Modeling Skills**



**Bottom Line: OFCM coordination and collaboration activities provide opportunities for partnerships and leveraging of resources to improve Road Weather capabilities**

# Community Effort – NOWCON

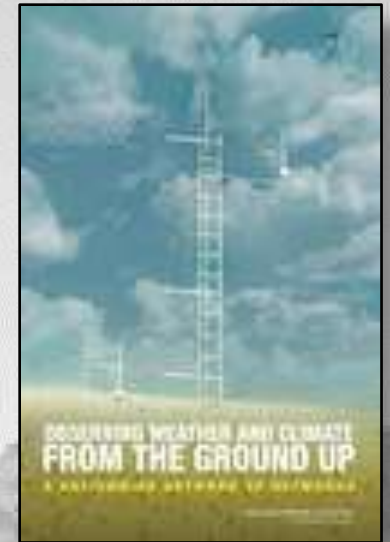
## Federal Weather Community Response to the NRC Report

- **Network of Weather and Climate Observing Networks (NOWCON)**

- Coordinate and collaborate – reduce chaotic, patchwork effort without stifling energy and innovation
- Help resolve boundary layer obs shortfalls
- Make more data available for **road weather** applications
- Use **road weather** data to improve forecasts for all
- Set standards, establish architecture, define metadata

- **Next Steps**

- Finalize metadata standard recommendation
- Develop strategy for implementation of metadata
- Address architecture and data management issues
- Track National Mesonet initiative
- Develop approach to:
  - Validating mesoscale observation needs
  - Completing a gap analysis
  - Planning for new capabilities to fill gaps



# Community Effort – 4D Weather Cube

- **NextGen weather vision:**
  - Multiple-user common weather picture
  - Net-centric (net-enabled) capability
  - Data storage approach containing observations & forecasts
  - 4D Weather Cube will have benefits beyond aviation
  - Automated decision assistance tools for **road weather** and other agencies
- **4D Weather Cube Road Map**
  - Initial Operational Capability (2014)
  - Intermediate Capability (2018)
  - Full Operational Capability (2022)



**4-D Weather Cube could be a data delivery tool for Road Weather Management products & services!**

# Community Effort

## NextGen Aviation Weather R&D Plan

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**Purpose: Develop Aviation Weather R&D Strategy / Roadmap to Help Meet NextGen Aviation Weather Requirements**

- ICMSSR approved OFCM effort to lead interagency collaboration
- Steps to develop strategy / roadmap (12-month timeline)
  - Identify requirements
  - Determine current capabilities and gaps
  - Inventory ongoing R&D and identify additional R&D needed to meet capability gaps
  - Develop aviation weather R&D strategy / roadmap
  - Track R&D progress & results to meet requirements
- **Propose OFCM WIST Working Group re-engage**
  - **Focus on R&D priorities (similar to aviation community)**
  - **Leverage capabilities amongst federal partners**

# Community Effort – OFCM WIST WG

## Next Steps

- **Re-engage WIST Working Group**
  - Next meeting: Fall 2011
  - Discuss R&D common issues
    - NOWCON
    - 4-D Weather Cube
    - Connected vehicles
    - Other initiatives (PBL, etc.)
  - Begin to identify R&D priorities, shortfalls
- **Goal: partner and leverage resources to enhance needed R&D to ultimately improve WIST products and services**
- **Explore possible WIST symposium / workshop in 2012**







# Questions?

Visit our web site at  
<http://www.ofcm.noaa.gov>