Update for:
LADCO
Midwest Planning

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Base J

Base K
Improved NH3 Dust Transport Fractions

Beta of Megan
Met Rain Problem
Base M1

Base M2
Cars/Trucks?
What is ERTAC?

- Ad-hoc organization of MJO’s and states in eastern U.S.

- Technical organization to fix specific problems and coordinate inventory development
  - Coordinate emissions inventories needed for air quality modeling (e.g., next round of SIPs)
  - Provide a technical- (not policy-) driven process for developing and improving emissions inventories
Goals and Principles

• Achieve technical consensus on preferred data sources and inventory methodologies

• Promote consistency, while respecting state-specific approaches

• Focus on those issues likely to have the biggest impact in air quality modeling
How We Work

• Steering Committee defines goals and schedule
  • MJOs (LADCO, MARAMA, SESARM), States (IL, MI, MO, MD, NY, NJ, GA, NC, LA), EPA (OAQPS)

• Using in-kind resources, workgroups do the work

• Some projects will need money. Hope EPA can help? (Should we reach out to stakeholders – NREL, AAR, ....?)
Priority ERTAC Projects

• Rail emissions
• Mobile source PM emissions
• Agricultural Ammonia
• Area source comparability
Rail Emissions
(Timeframe: on-going)

- Chair: Michelle Bergin (GA)
- Approach: Focusing on line haul and rail yards for Class I’s
- Accomplishments
  - Prepared data collection methodology
  - Contacted rail companies (Class I)
- Schedule: draft inventory by mid-2009
PM$_{2.5}$ (OC) Emissions from Mobile Sources
(Timeframe: fall 2008 – Summer 2009)

• Problem: Current inventories underestimate PM emissions from mobile sources (which results in large model underestimation for PM$_{2.5}$-OC)

• Approach: Environ/DRI developing MOBILE6 adjustment factors for primary PM-OC and SVOC mobile source emissions based on KC study data (under contract to LADCO, NREL, and MARAMA)

• Schedule:
  • December: provide draft methodology
  • January: provide draft factors
  • Feb-May: modeling with adjusted inventory (Detroit, NYC)
  • May-July: final report
Area Source Comparability
(Timeframe: fall 2008 – spring 2009)

• Goal: Work with states to define complete inventory for area sources

• Approach: Determine default methodologies with emission rates and surrogates

• Process: Near Completion: www.ertac.us for spreadsheet.
Agricultural Ammonia
(Timeframe: Mid 2009)

• Improve UC–Davis process-based emissions model
  • Developed in 2005 by ISSRC/Environ with RPO funding

• Improvements include…
  • Newer science and 2007 Census of Ag data

• Remaining shortcomings…
  • Lots of national defaults, but not much local data

• To do…
  • Need to identify variables model is most sensitive to
  • Compare model results to measurement studies
Other ERTAC Projects

• EGU temporalization based on CEM data
• EGU growth methodologies (July 2009?)
• Commercial marine
• Canadian emissions (2005/2008)
• Wildfires and prescribed burns (eastern U.S.)
• Agricultural equipment (population/temporal)
Future of Regional planning

• 2007/2008 inventory development
• 2007 Met Cooperation
• Regional Modeling Issues
  – Single State Filibuster
  – Issue Amplification
  – Solution: Benevolent Despots or Longer Timelines?