



Update on the
San Juan County
Early Action Compact for Ozone

February 2004

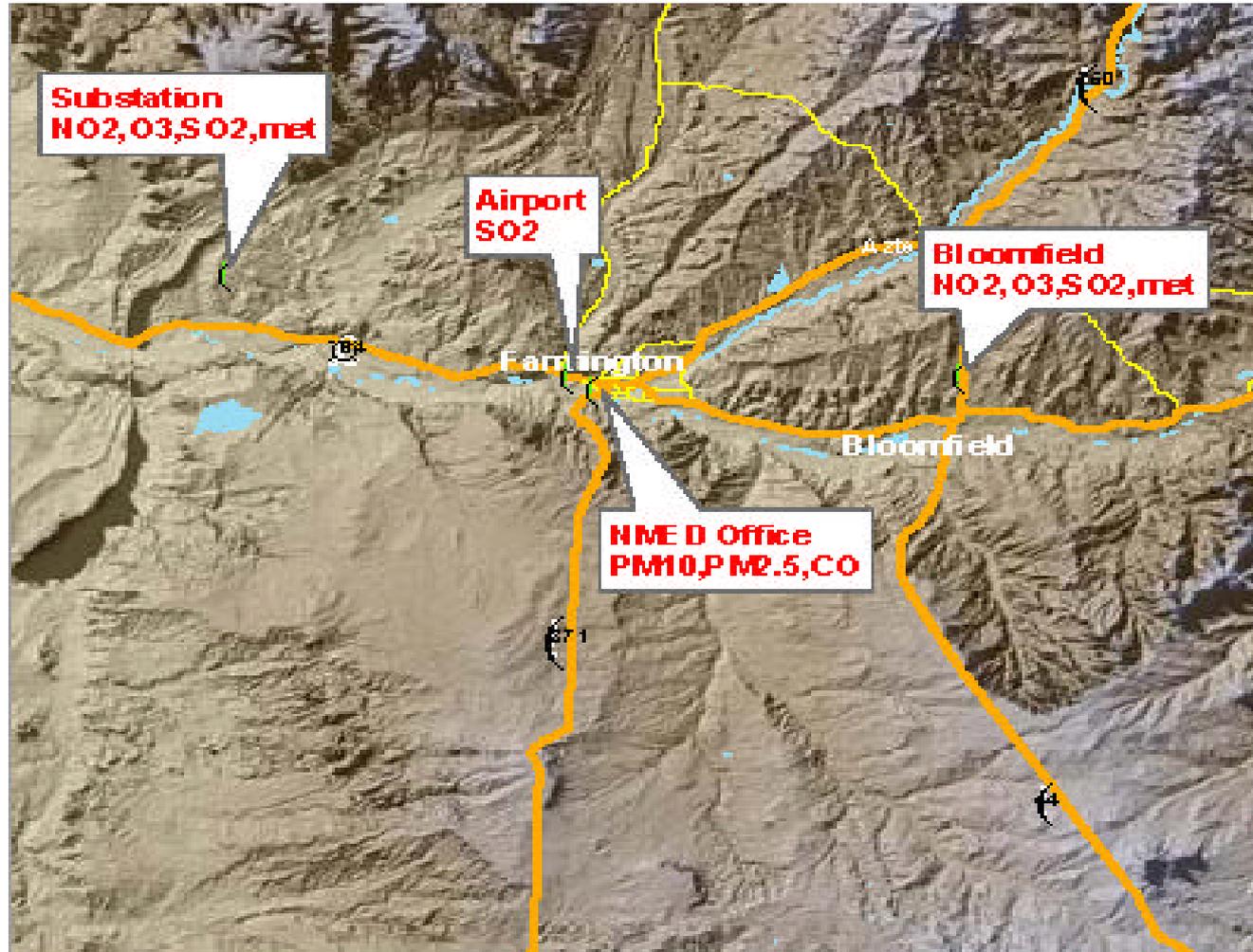


Ozone: A Quick Review

- Protective layer in the stratosphere; Harmful pollutant in the troposphere (ground-level)
- EPA 8-hour ozone standard: 84 ppb
- NMED monitors at Substation and Bloomfield
- Monitored levels approach the standard:
 - 2002 design value: 76.3 ppb (both sites)
 - Substation 2003 design value: 74.7 ppb
 - Bloomfield 2003 design value: 74.3 ppb



Locations of monitors





Ozone: A Quick Review

- Four Corners Ozone Task Force active since '02
- Early Action Compact (EAC) signed in Dec. '02
 - Early analysis and planning
 - Local control
 - No cost to the community
 - Can opt out at any time
 - No mandatory federal or state measures
 - Goal: Maintain San Juan County's compliance with the ozone standard through 2007



Early Action Compact Milestones

- **Dec 31, 2002** - No later than Dec 31, 2002, compacts must be completed, signed by local, State (or Tribal) and EPA officials, and formally submitted.
- **June 16, 2003** – Compact areas identify/describe local control measures that are being considered during the planning process. Deadline for describing the control measures must be met to maintain program eligibility.
- **March 31, 2004** - The resulting local plan, including control measures, must be completed and submitted to the State by this date for inclusion in the SIP.
- **Dec 31, 2004** - States must submit a SIP consisting of the local plan, including all adopted control measures that demonstrate attainment of the 8-hour ozone NAAQS by Dec 31, 2007.
- **Dec 31, 2005** - Compact areas must implement the local control measures that have been incorporated into the SIP.
- **Dec 31, 2006** – Compact areas must certify progress toward attainment since previous milestone, eg, continued implementation.
- **Dec 31, 2007** – area must attain the 8-hour ozone NAAQS. Failure to attain by this date will result in the nonattainment designation becoming effective.

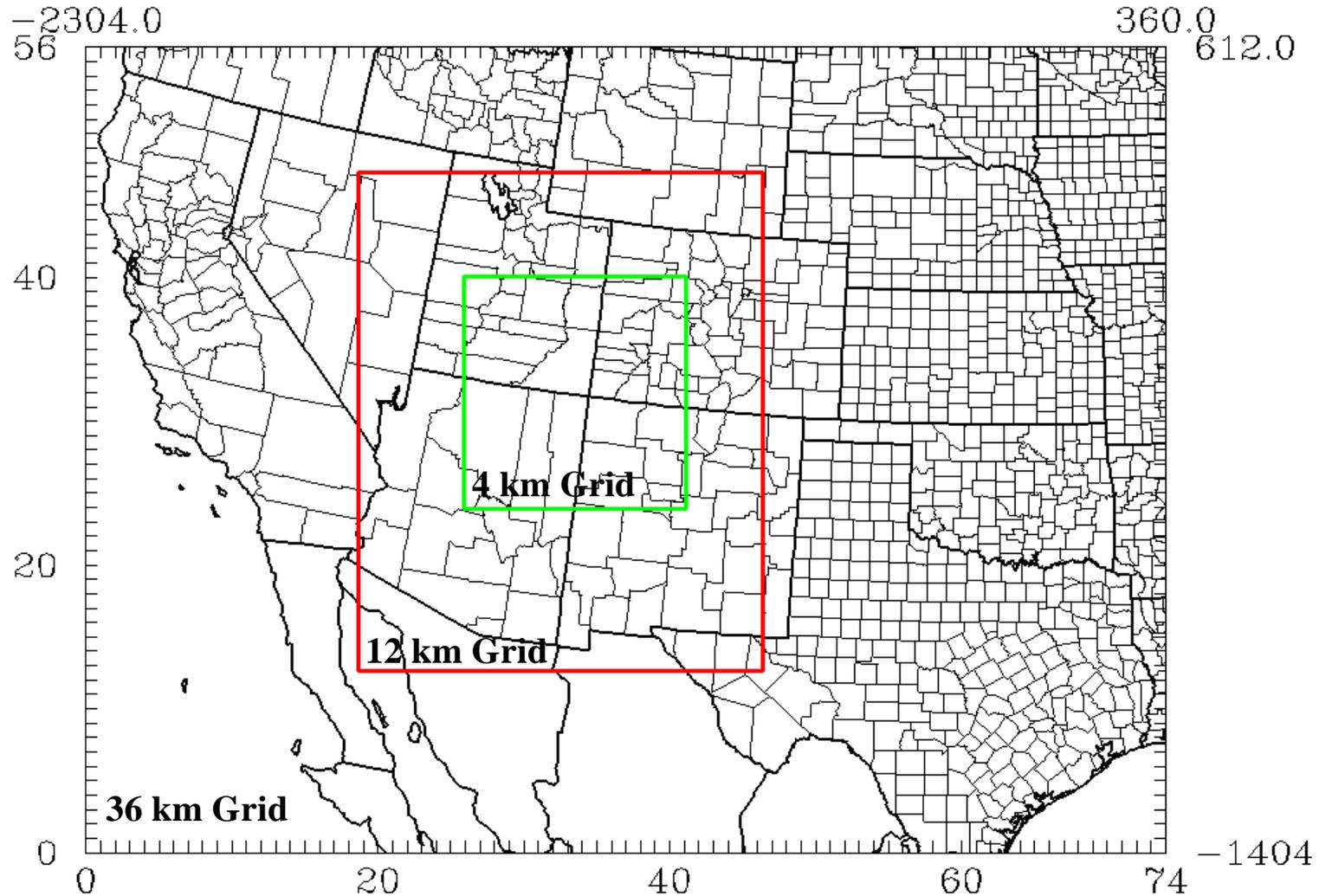


EAC: Steps to Completion

- Technical analysis: June '03 - February '04
 - Meteorological modeling
 - Emissions inventories and modeling for 2002 base case and 2007 future case
 - Consultation with Technical Peer Review Committee each step of the way
 - Meetings with Task Force in July 2003 & January 2004
- Present results to EAC Signatories
- Path forward is a decision left to EAC Signatories and local stakeholders

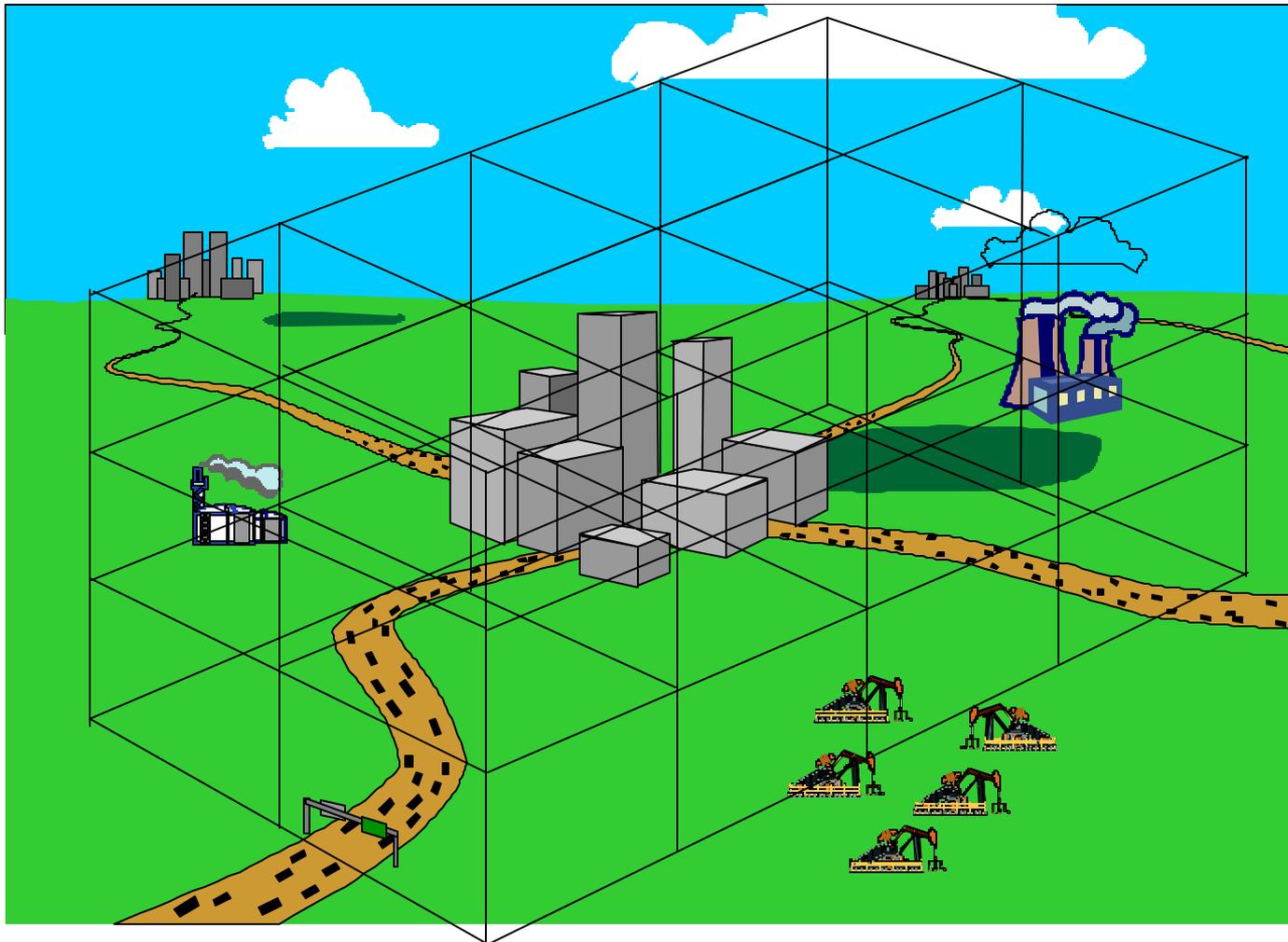


Air Quality Modeling Domain





Photochemical Model





How is 2007 Emissions Inventory compiled?

- Year 2007 emissions estimates ‘grown’ from 2002 using growth and control measures developed and/or recommended by EPA
 - Includes population growth, economic projections, etc. from EPA and states when available
- Emissions projections for all western states in 36 km modeling domain
- Control measures include federal and state regulations currently “on the books”



What does the Model tell us about 2007?

- San Juan County expected to remain in attainment of 8-hour ozone standard through 2007 by a substantial margin

Concentrations of ozone are predicted to remain nearly the same in the next three years.



What does the Model tell us about 2007?

- Substation 2003 design value: 74.7 ppb
- Substation 2007 design value: 74.37 ppb

- Bloomfield 2003 design value: 74.3 ppb
- Bloomfield 2007 design value: 72.49 ppb

EPA 8-hour ozone standard: 84 ppb



Next Steps

- Additional future case modeling scenarios completed during February
 - Source apportionment modeling runs
 - Changes/additions to 2007 emissions inventory
 - Modeling to 2012
- Results should be available soon



Next Steps

- Decisions are up to EAC signatories:
 - No measures are mandatory at this time.
 - May choose to implement one or more of the control measures from the list compiled in June 2003.
 - May choose to implement other control measure(s) or pursue voluntary measure(s).

- NMED can assist with writing regulations (if needed) and/or pursuing voluntary initiatives.



Contacts:

Mary Uhl (505) 955-8086

Gail Cooke (505) 955-8022

Andy Berger (505) 955-8034

Ozone in San Juan County:

www.nmenv.state.nm.us/aqb/projects/Ozone.html

EAC documents and Ozone Task Force:

www.nmenv.state.nm.us/ozonetf/