

# Summary of feedback

Air Quality Forecaster Focus Group  
Workshop

15-16 September 2016

# AQ forecast guidance

- NOAA AQ predictions used as tools to inform forecasts issued for state and local areas
- Ozone underprediction early in the season, overprediction starting in July (OH, CT, MD, PA, DE, SC, ME, TX, IA, FL, VA, AL)
- PM2.5 raw model and bias corrected guidance helpful to identify day-to-day trends (PA, DE)
  - Underprediction AZ (dust), CA, ME, TX (smoke)
  - Overprediction in wintertime (midatlantic)
- Initial CMAQ 5.0.2 system feedback:
  - reduced ozone overprediction in the eastern US by about 5ppb (MD), reduced FAR (MD, CT, IA)
  - Reduced PM2.5 bias in California, mixed impact elsewhere

# Display and outreach

- Use term AQ 'forecast guidance' on AQ safety web page
- Limit the zoom level at the resolution of the data on new display
- In table display-need max values for tomorrow, not just today
- WRN outreach
- ASCII format very useful for evaluation p-extend to parallel models

# Improvements needed

- Ozone overprediction, higher FAR later in the summer
- Higher resolution needed, mesoscale features more important, dewpoints, sea-breeze
  - Coastal areas (CT, ME, MD, VA, CA, AL, TX, OH, SC, DE, FL)
  - Valleys (Phoenix, ME, CA, NV)
  - Elevation
- 72 h for extended prediction (all)
- Uncertainty in wildfire smoke plume height