Objectives of Breakout Groups

- Identify a structure for furthering the dialogue
- Begin to further describe the AQ management needs
- Identify case studies/issues the might be pursued in conjunction with AQAST
- Identify suggestions for structure, timing, and venues for future workshops

Themes for Suitability Matrix and Follow Up

- Air Quality Spatial Distribution & Temporal Trends
- Air Quality Model Evaluation
- Emissions Inventory Development & Evaluation
- Forecasting & Near Real Time Information

Air Quality Spatial Distribution & Temporal Trends

- Attainment Design Conditions
- Exceptional Events Identification
- Exposure and Health Risk Assessment
- Defining Boundary Conditions for Regional/Local Scale Analysis
- Source Attribution of Trends (Local/Regional/Global, Sectors)

Air Quality Model Evaluation

- Meteorological Fields
- Chemical Fields
- Surface Concentrations
- Chemical Processes
- Vertical Mixing (BL, FT layers)
- Stratosphere/Troposphere Exchange

Emissions Inventory Development & Evaluation

- Identification of Sources
- Timely Updates of Bottom Up Inventories
- Detect the Impact of Controls
- Emission Drivers/Activity Levels
- Fires
- Shipping
- Biogenics
- International Sources

Forecasting & Near Real Time Information

- Input to Local Forecasts
- Data Assimilation into Models
- Event Response
- Exposure Estimation for Public Info

Initial Questions

- Are there promising applications that are not captured in these 4 themes?
- Do the themes need to be subdivided for purposes of a scoping discussion?

Questions for Breakout Groups Focusing on AQ Management Needs

- For each type of application, can we begin to define the needs in terms of:
  - Who are the users in this area
  - Parameter Measured, Detection Limit, Temporal Resolution, Spatial Resolution, Accuracy, Accessibility, Georeferencing, Ease of Use/Interpretation
- What would be the best venues for reaching users in this area of application?
- Are there immediate needs/opportunities that might make good case studies?