Theme 3: Air Quality and Weather Forecasts: Two-way Interactions

International Workshop on Air Quality Forecasting Research
Boulder, December 2-3, 2009
Theme 3 discussion

• Do we know enough?
• Which processes need to be coupled?
  – In which context? (climate/AQ/ AQ forecasting/weather forecasting?)
  – At what temporal and/or spatial scale (horizontal & vertical) is it important?
    ▪ Is it scale dependent?
• How should the coupling be done?
  – Are some coupling methodologies better than others?
  – How much more resources does it requires?
  – How much detail needs to be reflected in the coupling?
• Does it provide significant enough benefits for forecasting?
  – Air quality? Especially PM, O₃ and NO₂ accuracy?
  – Meteorology?
  – Is it worth the cost? Are we missing something without it?