Introduction to the Main Issues and Objectives of the Meeting

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Issues for the Meeting

• Objectives of the meeting
  – Advanced users to put everything together and make progress on understanding common issues (instrument or data)
    • It is our only chance to do this with everyone here!
    • User: “I am not scared about AAAR, I am scared about the users’ meeting”
  – Newer users to get up-to-speed with the details
    • Another User: “it was the most boring day in my life”
Main Technical Issues for the Meeting

• Overall Objective:
  – Absolute Independent Quantification of Species Mass Concentrations to 5-10% and of Uncertainties
  – I.e. compare to PILS (& others) and agree every time w/o needing to change CE, etc…
  – Know how much mass we are missing due to lens transmission (for spheres) & shape (CE)
  – We can quantify the uncertainties due to relative IE of species

Issues to Continue Working On

• Most important
  – Transmission of the lens vs. particle size (spheres)
  – Transmission of non-spherical particles (CE)
  – RIE
  – Quadrupole transmission + multiplier response vs. m/z

• Other ongoing issues
  – Interpretation of the organic signals
  – Consistency in instrument operation, data analysis, and presentation