

Most important PSI contributions

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Ground sites in Barcelona : Aerosol chemical composition: Source apportionment

- AMS, BC, size distribution measurements at urban site
- Hourly-resolved elemental aerosol composition at urban site and Montseny
- ^{14}C analyses (fossil versus non-fossil carbon) of OC and EC for Hi-Vol-PM1 samples at urban site and Montseny

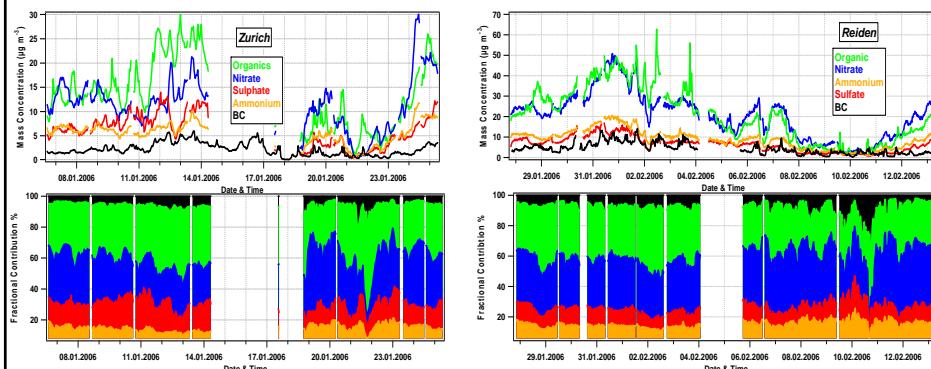
Mobile lab : Aerosol chemical composition: Source apportionment; Local versus regional aerosol; special missions: harbour, industry, traffic

- AMS, BC, size distribution measurement in mobile lab

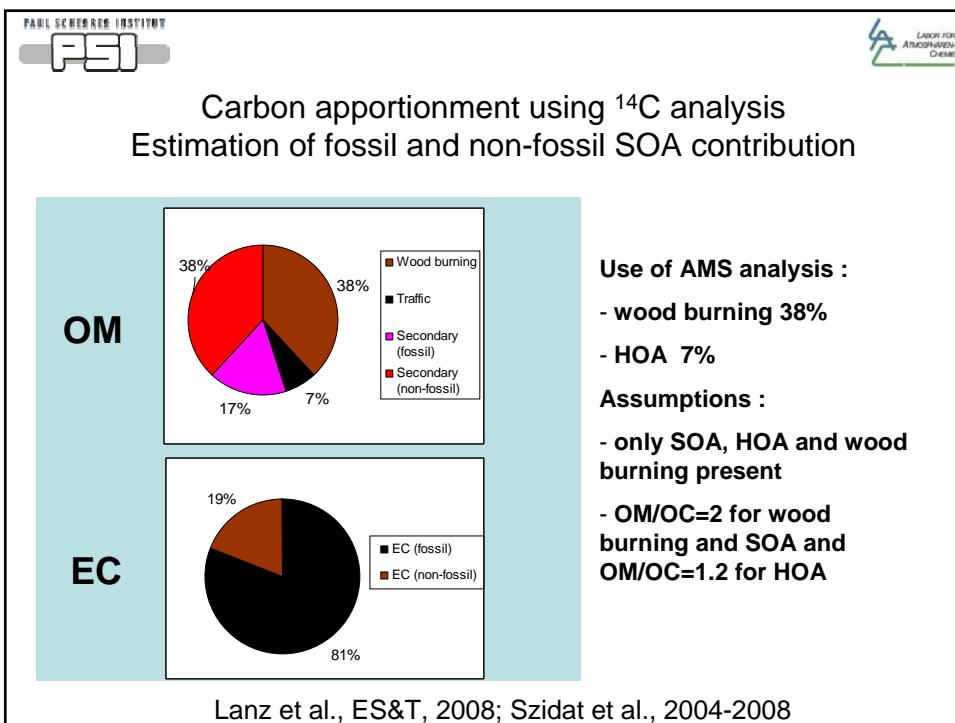
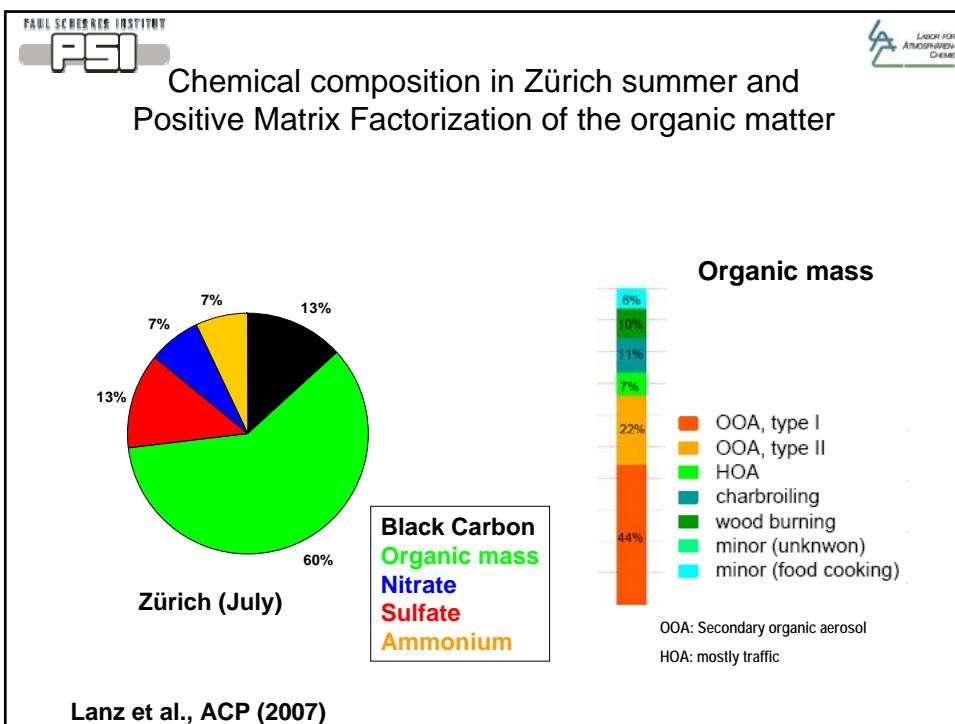
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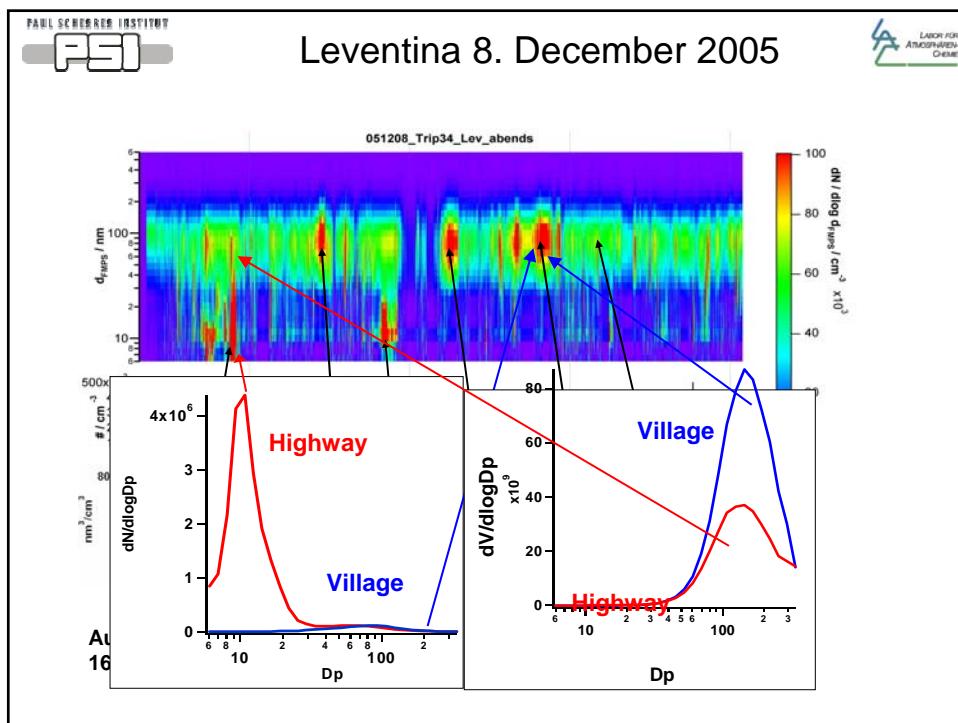
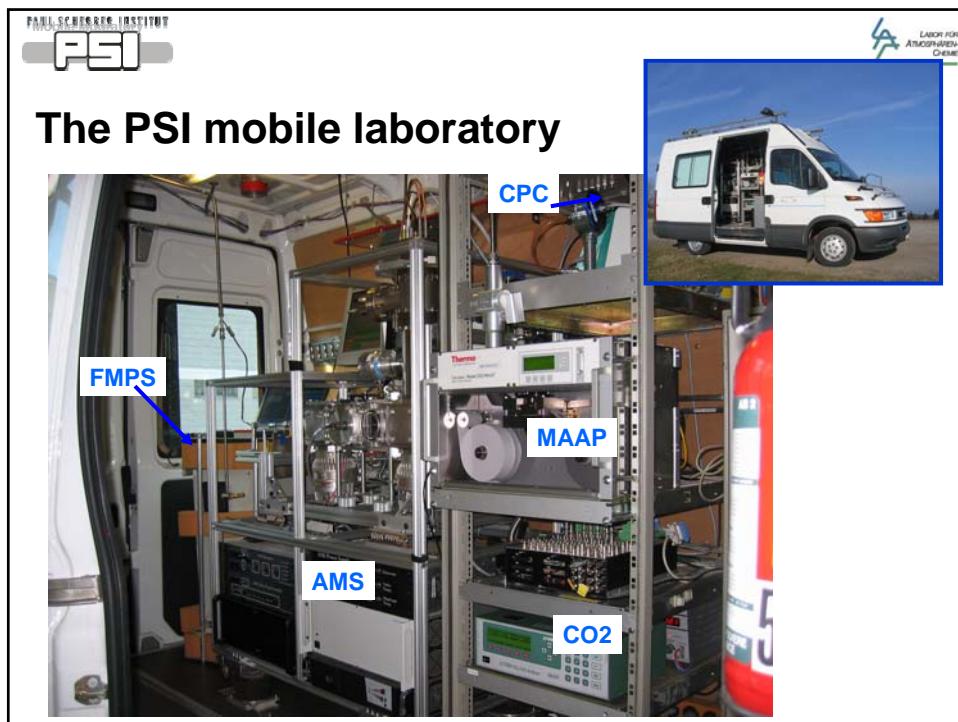
- European organic aerosol sources by using AMS data in Barcelona and all over the Europe during the on-going EMEP/EUCAARI campaigns

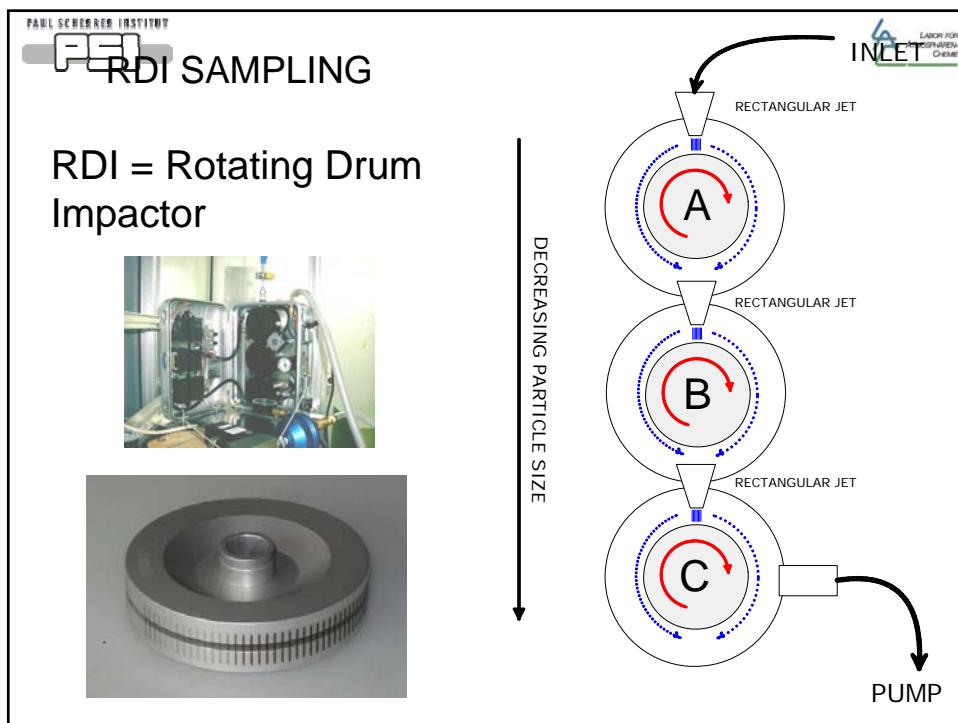
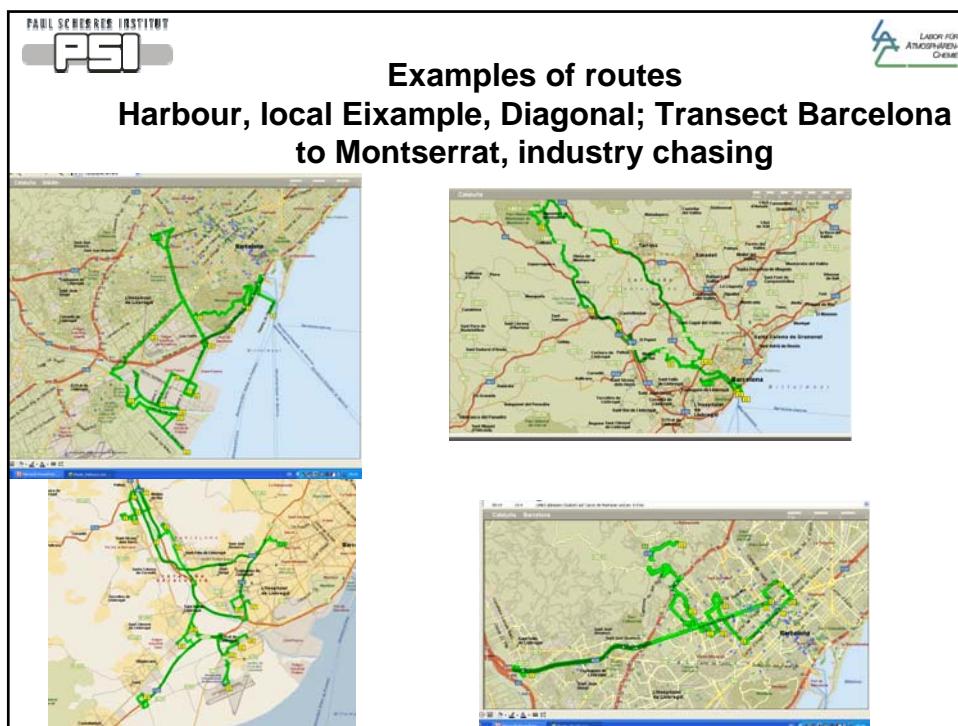
Example of Aerosol mass spectrometer measurements together with some black carbon measurements by an Aethalometer



Time resolution: minutes down to 6 seconds at low detection limits







High resolution iron concentrations for PM10-PM2.5; PM2.5-PM1; PM1



Fe_Area

