Geophysical Research Abstracts,
Vol. 11, EGU2009-10300, 2009
EGU General Assembly 2009

Advanced high quality aerosol data: novel results from the EUSAAR in situ measurement network

P. Laj (1), S. Philippin (1), J.-P. Putaud (2), A. Wiedensohler (3), G. de Leeuw (4,5), A.M. Fjaeraa (6), U. Platt (7), U. Baltensperger (8), and M. Fiebig (6)

(1) Laboratoire de Météorologie Physique, Université Blaise Pascal, Clermont-Ferrand, France, (2) Climate Change Unit, Joint Research Centre, Ispra, Italy, (3) Leibniz Institute for Tropospheric Research, Leipzig, Germany, (4) Netherlands Organisation for Applied Scientific Research, Den Haag, The Netherlands, (5) Finnish Meteorological Institute, Helsinki, Finnland, (6) Norwegian Institute for Air Research, Kjeller, Norway, (7) University of Heidelberg, Heidelberg, Germany, (8) Laboratory of Atmospheric Chemistry, Paul Scherrer Institut, Villigen, Switzerland

The EU-funded project EUSAAR (EUropean Supersites for Atmospheric Aerosol Research) aims at integrating measurements of atmospheric aerosol properties from a distributed network of 20 high-quality European ground-based stations. The objective is to ensure harmonization, validation and data diffusion of current measurements of particle optical, physical and chemical properties which are critical parameters for quantifying the key processes and the impact of aerosols on climate and air quality.
We will present and discuss the results and highlights of the activities and achievements during the first 3 years of the project during which EUSAAR has contributed to improving the comparability of measurements for data users and to adopting best practices in aerosol monitoring procedures, and has started providing high quality aerosol data much needed in the atmospheric research community from the most advanced monitoring stations currently operational in Europe.