

# **A homogeneous measurement network of Ozone or PM10. Design and quality control aspects.**

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In order to gain an overview of the near-surface ozone or PM10 conditions, a network of measurement stations was designed. The evolution of this design under changing political boundary conditions is presented. When running such networks on an operational basis a system of thorough, yet swift quality control checks is of key importance. Strategies to identify potential errors are shown. The practical work is carried out using a distinct software which enables an effective work flow. This ensures to fulfill the EU guideline which demands that the public is supplied with quality-controlled data on hourly basis - something unheard of with respect to operational weather data.

Of high relevance in an operational environment is also a strategy to take care of missing values. This is achieved through a statistical procedure that replaces a gap by a combination of data from surrounding locations. Practical aspects of that procedure will be discussed. Episodes of high concentrations of will be shown and the feasibility of obtaining trend information from the network will be discussed.