



## **Activities to improve harmonization and quality of European VOC and NO<sub>x</sub> long-term monitoring within ACTRIS**

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Variability and trend analysis of long-term monitoring data of VOC and NO<sub>x</sub> and comparison between different data sets require good and harmonized QA/QC and data evaluation procedures. Some 15 institutions and several associated partners have joined their efforts in networking activity NA4 of the European infrastructure project ACTRIS (Aerosols, Clouds, and Trace gases Research Infrastructure Network) to better harmonize and improve the quality of long-term VOC and NO<sub>x</sub> measurements. The objectives are closely related to the requirements of Global Atmosphere Watch (GAW, WMO) and EMEP. A survey of the existing European sites and measurement techniques has been compiled. Partners and associates were invited to participate in setting up drafted measurement guidelines, performing round robin experiments, and side-by-side intercomparison activities. Furthermore, forms for data and metadata submission were prepared in cooperation with EBAS and harmonized methods for data evaluation and uncertainty estimation were developed and suggested to be used in data submission to data centers. This presentation shall give an overview of the activities in NA4 and introduce two accompanying presentations concerning results of ACTRIS VOC and NO<sub>x</sub> intercomparisons.