

# Review of the field experiments on the transfer of pollution in urban areas in 1979 and 2003.

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Rather extensive material on full-scale field experiments in urban areas has been accumulated so far. On the researches a large number of articles have already been presented in the print and electronic media. Despite this fact, there is a shortage of original raw data of the specific experiments, with detailed descriptions of the experiments and the original statements of emissions. But these data are urgently needed for the validation and verification of modern models of pollution transport in the city.

This article presents eight best-known full-scale field experiments mostly in a real urban environment, which were held in the period from 1979 to 2003

1. **Copenhagen** (1978-1979, sulfur-hexafluoride), (Gryning and Lyck, 1984, 2002)
2. **Indianapolis**, (1985, sulfur-hexafluoride), (Murray and Bowne, 1988)
3. **St. Louis**, (1968, SO<sub>2</sub>), (McElroy and Pooler, 1968)
4. **Lillestrom** (1987, Lillestrom (near Oslo), sulfur-hexafluoride), (Sivertsen and Bohler, 1985)
5. **URBAN/VTMX** (2000, Salt Lake City, sulfur-hexafluoride)
6. **MUST** (2001, Dugway Proving Grounds, sulfur-hexafluoride) (Biltoft, 2001, Biltoft et al., 2002)
7. **BUBBLE** (2002, Bazel, sulfur-hexafluoride), (Gryning et al., 2003)
8. **JU03** (2003, Oklahoma City, sulfur-hexafluoride).

For each experience, the following information provides a brief places, experimental setup, the equipment, the conditions of the sampling and other peculiarities of individual studies. In addition, for some experiments, the sources specified to obtain more information up to the real-time data gained from the individual sensors.

This work will be useful as an overview to inform the scientific community as well as for the revision and analysis of the results for subsequent application in the models

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VTMX webpage  
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