



ATMODAT (ATMOSPHERIC MODEL DATA) - CREATION OF A MODEL DATA STANDARD FOR OBSTACLE RESOLVING MODELS

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INTRODUCTION

Obstacle resolving micro-scale modelling is important to assess processes in complex urban areas (Figure). However, the use and the comparison of results with different obstacle resolving models is time consuming due to the different model types and approaches used. This includes:

- filtering methods (RANS, LES),
- grids (numerical, physical model),
- spatial and temporal resolution,
- treatment of obstacles.

Some model data standards are available, such as for the Coupled Model Intercomparison Project (CMIP). Currently, there is no agreed standard for Obstacle Resolving Model data

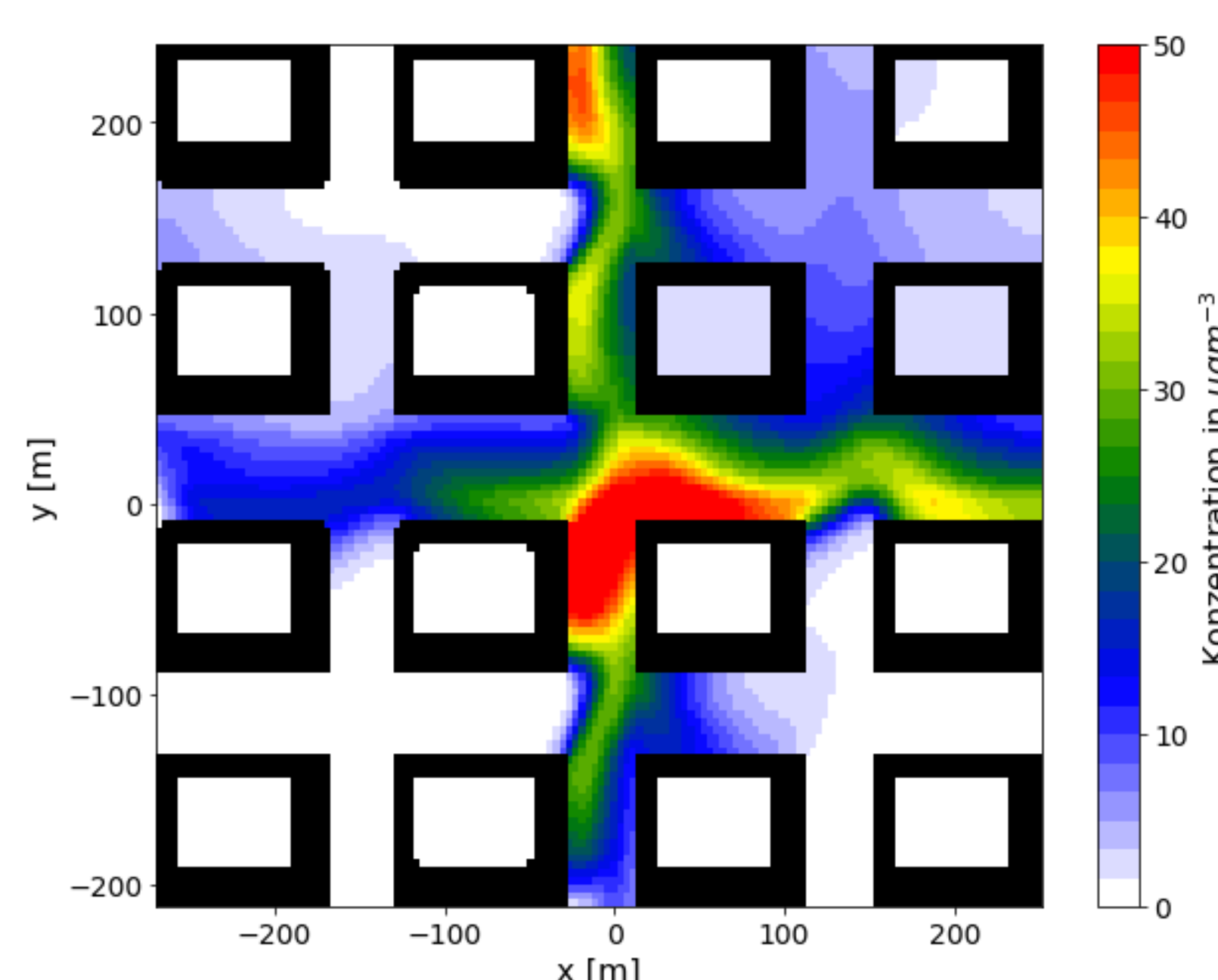


Figure: Distribution of particles within an idealised urban domain. Simulation prepared with the microscale model MITRAS.

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<http://uhh.de/orm-survey>

WHAT DO WE WANT

AtMoDat wants to create a model standard for obstacle resolving models. This will

- consider data quality standard based on the Climate and Forecast (CF) Conventions already used by CMIP,
- be based on the needs of the obstacle resolving model user community,
- be fitted to the model output of obstacle resolving numerical and physical models,
- enhance reusability of model data
- eventually lead to a quality ensured 'Atmospheric Model Data DOI (AMD DOI) Branding'.

To develop a standard we invite information by you!

PLEASE TELL US ABOUT...

- ... the Models you currently use and used in the past
- ... the Model Data Standard your models uses; how do you handle the data?
- ... model specific properties like initialisation, grid, etc.
- ... what you missed when using model data
- ... ideas how to improve and develop the AMD

To help us with this task, please participate in this survey, linked by QR- code.

Further Information:
www.atmodat.de

