

P31 Model evaluation of high-resolution urban climate simulation: WRF ARW/LSM/SLUCM model as a case study.

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The veracity of model should be systematically evaluated to demonstrate the trustworthiness of model against possible model uncertainties. However, existing studies only provided some simple comparison lines between modelled variables and its corresponding observed ones on the temporal dimension. Challenges remain since such simple comparisons cannot concretely convince that the simulation of urban climate behaviours is successful. These studies may still lead to some seemingly new findings but the new findings may be scientifically misleading. That kind of modelling practices is ambiguous or arbitrary modelling practice to some extent. To tackle the existing challenges, this article proposes a case study to demonstrate a methodological framework for the model evaluation of high-resolution urban climate simulation. It is intended to state the necessity of a systematic model evaluation of urban-scale climatology modelling, draw attention within the community of urban climate modellers, and be a kick-off in reducing these ambiguous or arbitrary modelling practices.