

Interactive comment on “Evaluation of the Lattice Boltzmann Method for wind modelling in complex terrain” by Alain Schubiger et al.

Alain Schubiger et al.

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Thank you very much for the comments.

Abstract, Line 5, Please spell out the acronym WAsP: changed in the new version of the paper

Abstract, Line 6, LBM is a mesoscopic level method, not microscopic method if one follows the standard definition. changed in the new version of the paper

In Introduction section, there are three articles should be cited. added to the new version of the paper

Section 2.2, In your regularized-BGK LBM method, do you compute the strain rate

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tensor for LES using the fluid particle PDF?

The implemented regularization process is best described in this work of Jonas Latt and Bastien Chopard. Latt, Jonas, and Bastien Chopard. "Lattice Boltzmann method with regularized pre-collision distribution functions." Mathematics and Computers in Simulation 72.2-6 (2006): 165-168. A reference was added to the new version of the paper.

Section 3.1, ... It is also good to add some description on lateral (North, South) and outflow boundary conditions. Description was added to the new version

How about the turbulence (such as TKE) comparison? A comparison of the turbulence has been added to the new version of the paper

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