

Interactive comment on “Mesoscale circulations over complex terrain in the Valencia coastal region, Spain, Part 1: simulation of diurnal circulation regimes” by G. Pérez-Landa et al.

I. Kovalets

ik@env.com.ua

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General opinion about the paper is very good: it gives comprehensive comparisons of wind measurements and simulations in sea breeze and complex topography conditions.

However, at first I agree with the criticism of all reviewers concerning the soil moisture initialisation: it's presentation is not very clear. In particular, it is not clear, why precipitation measurements were not used during "spin-up" calculations (as far as I understood that) and with respect to what FDDA was used? In the case, when real advantage was gained with the use of such initialisation scheme, it is preferable to describe it in more

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detail, because that initialisation approach seems to be novel.

Secondly, in my opinion comparisons of predictions with vertical temperature profiles are also highly desirable, since they can give impression about the adequacy of the simulated PBL depth and turbulence, which can significantly influence CO₂ distributions.

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