

Interactive comment on “Can seasonal and interannual variation in landscape CO₂ fluxes be detected by atmospheric observations of CO₂ concentrations made at a tall tower?” by T. L. Smallman et al.

ED Dellwik

ebde@dtu.dk

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The overestimation of model CO₂ concentration relative to the TTA measurements during night-time in Figure 2 could be due to a bug in the YSU scheme in version 3.2 of the WRF model.

For the versions 3.0 to 3.4, excessive mixing during stable night time conditions can be attributed to a coding error (Hu et al. 2013, <http://onlinelibrary.wiley.com/doi/10.1002/jgrd.50823/pdf>). The impact of correct-

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ing this error is also documented in this study.

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