Geoscientific Model Development

Discussions

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Interactive comment on "Using reactive transport codes to provide mechanistic biogeochemistry representations in global land surface models: CLM-PFLOTRAN 1.0" *by* G. Tang et al.

G. Tang et al.

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Comment: P10646: L24-26, now it seems weird to me why you set o_scalar to 1. A RTM should be able to resolve gas diffusion by design, otherwise how could you claim CLM-PFLOTRAN will serve the purpose to do improved soil biogeochemical modeling, which is essentially multiphase?

Response: the o_scalar in CLM4.5 is 1 unless the methane module is turned on. As we respond to comment 1, 3, and 5 (R1), this is out of the scope of this work.

Interactive comment on Geosci. Model Dev. Discuss., 8, 10627, 2015.