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Interactive Comment

Interactive comment on "Methane emissions from boreal and tropical forest ecosystems derived from in-situ measurements" by V. Sinha et al.

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Due to a technical error while posting the reply, some lines under point 3 did not get posted. I am therefore posting the relevant paragraph again.

3) We note however that the case of "laminar layers preventing vertical mixing " as postulated by Bergamaschi et al. (2007) is not consistent with the measured vertical profiles of the CO2 mixing ratios during the course of the night. Bergamaschi et al. (2007) note that plotting percentages results in variations of less than 0.5 %. To illustrate that the mixing is indeed not inhibited, we have plotted the vertical profiles of the measured CO2 mixing ratios and how they evolve during the night (see Figure 5 at http://www.atmosphere.mpg.de/enid/figures-sinha). Clearly, if the mixing had been inhibited as proposed by Bergamaschi et al. (2007), the mixing ratio of CO2 at the



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67.7 m height level in the morning would be close to its mixing ratio at 20:00, at the same height of 67.7 m. What we see, however, is that the mixing ratio has increased (consistent with a nighttime CO2 flux and reasonably good mixing).

Interactive comment on Atmos. Chem. Phys. Discuss., 7, 14011, 2007.

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