

***Interactive comment on* “Turbulence characteristics in grassland canopies and implications for tracer transport” by E. Nemitz et al.**

Anonymous Referee #3

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While quite a lot is known on turbulence characteristics in tall vegetation canopies, the detailed analysis on short vegetation is scarce. Beside basic turbulence, the paper also deals with the reactive tracer transport which is not even known very well for tall canopies. The paper definitely deserves publication in BGS after the following minor revisions (+ other already given by other reviewers):

1. Strict meteorologists call L as Obukhov length and not as Monin-Obukhov length; theory behind is Monin-Obukhov theory.
2. Only windy conditions, $u^* > 0.2$ m/s, was used in Fig.2; the friction velocity limit is certainly reasonable why exactly this value?

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3. How as the soil heat flux G measured?
4. Reference Rinne et al: replace "Helln" by "Hellen"
5. Fig. 4: explain $\sigma_{w,n}$ in the fig caption.
6. Fig. 10: mention that the curves are 3rd polynomials, I guess so.

Interactive comment on Biogeosciences Discuss., 6, 437, 2009.

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6, S214–S215, 2009

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