

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

Anonymous Referee #1

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The study presents a thorough, detailed, well organised and clearly written account of turbulence characteristics in a grass canopy. I fully endorse the positive general comments made in the two previous reviews and there little I may add at this stage of the discussion. In addition to the already cited references, I found one older reference on turbulent diffusivities in a maize canopy that may be of interest to the authors and readers (Druilhet, A. (1970) Détermination de la diffusivité turbulente dans les premières mètres au-dessus du sol a partir de la diffusion du thoron. In: Techniques d'étude des facteurs physiques de la biosphère, I.N.R.A. Publ. 70-4, Institute Nationale de la Recherche Agronomique, 149, rue de Grenelle, Paris-7e). It is based on Rn-220 measurements. Profiles are S-shaped during the night, while they are similar to the shapes

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in Figure 13c at midday. At 0.2 m above ground, values for K remain around 10^{-3} throughout day and night.

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

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