

***Interactive comment on “Temperature response functions introduce high uncertainty in modelled carbon stocks in cold temperature regimes” by H. Portner et al.***

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Received and published: 18 September 2009

I would just like to remind the authors of two papers with a very similar approach. Rodrigo et al. (1997) analytically compared several temperature sensitivity functions, whereas Bauer et al. (2008) also used a carbon turnover model to investigate the sensitivity towards six different temperature reduction functions. It probably makes sense to refer to those papers in the introduction and the discussion.

Bauer, J., Herbst, M., Huisman, J.A., Weihermüller, L., Vereecken, H.: Sensitivity of simulated soil heterotrophic respiration to temperature and moisture reduction functions. *Geoderma*, 145, 17-27, 2008.

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Rodrigo, A., Recous, S., Neel, C., Mary, B.: Modelling temperature and moisture effects on C-N transformation in soils: comparison of nine models. *Ecological Modelling*, 102, 325-339, 1997.

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Interactive comment on Biogeosciences Discuss., 6, 8129, 2009.

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