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Biogeosciences Discussions

Interactive comment on "The consumption of atmospheric methane by soil in a simulated future climate" *by* C. L. Curry

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In his analysis Curry shows convincingly the impact of future climate on methane uptake in global soils. GCM simulations and reanalysis data are used to run the methane uptake scheme, dependent on soil temperature and soil moisture. While absolute values may depend on the used input data from the GCM run, the relative contributions of the different parameters and regions leading to a larger global uptake seem to be robust.

The different aspects of the larger uptake in 2100 are extensively discussed. The conclusions are solid and well represented in figures and tables. The results for future methane soil uptake are an important part of the evaluation of the global methane budget, especially the separation into different process contributions is very useful.

Therefore, the manuscript certainly deserves publication in Biogeosciences.

Typo: p., 6079, l. 24: "methanotrophic"

Interactive comment on Biogeosciences Discuss., 6, 6077, 2009.