

# ***Interactive comment on “Uncertainties in modeling CH<sub>4</sub> emissions from northern wetlands in glacial climates: effect of hydrological model and CH<sub>4</sub> model structure” by C. Berrittella and J. van Huissteden***

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General comment: We are pleased with the positive general comments of Dr. Brovkin on our paper.

Abstract: We deliberately formulated the statement in the first sentence of the abstract rather weakly. Besides the northern wetland source, also other sources of CH<sub>4</sub> at glacial warming events have been proposed, as outlined in the introduction of our paper.

Page 825: We used the original output of the Stage 3 Project models, as listed on <http://www.esc.cam.ac.uk/research/research-groups/oistage3>. The biogeography model version is BIOME 3.5 as specified in section 2.1.

Table 1, Figure 2, page 832, Figure 8, 10: We seriously regret the errors that we have overlooked; these will be corrected in the final version. The units in Table 1 are Gigatonnes CH<sub>4</sub> /year over the study area, the reference in the caption should indeed be figure 9. The caption of Figure 2 should read 'fluxes of CH<sub>4</sub> as modelled by the PEATLAND-VU model' instead of 'fluxes of peatland'. The lower map shows again fluxes of CH<sub>4</sub>. In Figure 8, the units should be again Gt CH<sub>4</sub>/year, in agreement with the text on page 832. The units in Figure 10 are meters below the soil surface.

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