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Interactive comment on “Climate-driven expansion of blanket bogs in Britain during the Holocene” by A. V. Gallego-Sala et al.

Anonymous Referee #2

Received and published: 23 November 2015

Gallego-Sala and co-authors present an interesting exercise aiming at modeling the extent of blanket bogs in Britain at 6 kyrs. This extent is compared to radiocarbon dates of the initiation of the bogs, the final goal of this paper is to decipher between the climatic vs human controls on this initiation. My main concern about this study is the restricted area targeted by this modeling exercise. The authors could broaden the impact of their study by emphasizing the potential role of the British blanket bogs as analogs for bogs worldwide. Furthermore their role in a context of changing climate could be strengthened as well. This could be done in the introduction and conclusion. If feasible, another option for broadening the impact of this study could be to use the PeatStash model to evaluate what would be the projected repartition of bogs in Britain and then worldwide for the next 100 years depending of the different climatic scenarios.

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Specific remarks: - How the uncertainties associated with the MAT, MTWA, MAP pollen reconstructions are taken into account in the modeling experiments? How do they transfer into uncertainties in the blanket bog repartition? - Then, could the authors emphasize the novelty of this manuscript with that of the previous studies by the same authors : Gallego-Sala et al., 2010; Gallego-Sala and Prentice, 2013?

Interactive comment on Clim. Past Discuss., 11, 4811, 2015.

CPD

11, C2447–C2448, 2015

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