

Interactive comment on “Climate of the last glacial maximum: sensitivity studies and model-data comparison with the LOVECLIM coupled model” by D. M. Roche et al.

Anonymous Referee #1

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General comment: This is an interesting and worthwhile attempt at simulating the interacting earth system for the LGM. However as the authors readily acknowledge there are some limitations in the climate simulation, evident from the vegetation distribution. Still, this paper should act as a basis for further, improved simulations

Specific comments: Many areas of the world are simulated fairly well in terms of LGM vegetation, as the authors point out. The most evident problems in the simulated LGM distribution are 1) a lot of forest cover in SW Europe 2) an apparent expansion of forest in central Africa 3) a lot of forest in SE Asia and NE China. 4) Depending on precise definitions, the extensive savanna across northern Australia is probably too moist for

the LGM. In all these areas there is a range of sources of evidence suggesting much drier, open and even treeless vegetation. These I think would be mainstream opinions from all across the Quaternary community that has worked on the paleo-record of each region. I think the authors should be more explicit in pointing these out.

(unfortunately I cannot risk pressing the back button to check this vegetation map again, for fear of losing this form data, but these were the most glaring inaccuracies)

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