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Interactive Comment

Interactive comment on "Measurement depth effects on the apparent temperature sensitivity of soil respiration in field studies" by A. Graf et al.

A. Graf et al.

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Thank you very much for pointing to a highly relevant publication, which we will include in the literature review of the manuscript.

We agree with you that as long as empirical modelling (e.g. gap-filling) is the main reason of fitting a temperature sensitivity equation, the depth of maximum R^2 may be advantageous (at least, this is true in the case of approximate binormality of temperature and log-transformed respiration, and if minimum square errors in log-transformed respiration are wanted).

However, many publications use Q_{10} values for inter-site comparison of temperature sensitivity, and such values are also used for process-based modelling. In this case, any bias introduced by the maximum R^2 depth would be unwanted. As stated in the





manuscript (p. 1880), the error introduced by the maximum R^2 depth will be small in most cases.

Interactive comment on Biogeosciences Discuss., 5, 1867, 2008.

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