

Interactive comment on “Rapid changes in ice core gas records – Part 2: Understanding the rapid rise in atmospheric CO₂ at the onset of the Bølling/Allerød” by P. Köhler et al.

Anonymous Referee #2

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The filter seems to miss several key methane data points, one at the very beginning of the rapid rise into the Bolling, and one in the beginning of the Younger Dryas. Furthermore the EDML methane curve when filtered seems to miss much of the data in the Younger Dryas. Overall, this is not satisfactory, and indicates to me that the filter is too wide. It would be much clearer if the E value was continuously adjusted, so that there was no break in the curves. The methane data from EDC show a "flat bottom" in the Younger Dryas, that does not seem likely to be reproduced by the filter. This conversation has gone on long enough; the paper should be reworked and resubmitted without further discussion.

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