

Interactive comment on “Technical Note: Calculating state dependent equilibrium climate sensitivity from palaeodata” by Peter Köhler et al.

Anonymous Referee #2

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I just wanted to add a postscript: I responded with a similar point to the previous paper submitted by this group (Köhler et al, 2015), and in their response the authors suggested that the approach I was discussing was valid for transient but not equilibrium climate sensitivity. I wanted to be explicit that the concerns I have raised now and then were all concerned with equilibrium climate sensitivity, not transient sensitivity. Curves of $N(T,F)$ contained in this response (e.g. Figure 1) are not meant to represent fits to Gregory plots (Gregory et al, 2004), but rather represent the value of top-of-atmosphere energy flux a world in equilibrium at temperature T would have if you abruptly changed the forcing agents to be F . In that sense, they determine the equilibrium response to a forcing, and plots of time series of T vs. N would not necessarily follow these curves.

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Interactive comment on Clim. Past Discuss., doi:10.5194/cp-2016-23, 2016.

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