

***Interactive comment on “Reply to Comment on  
“Using multiple observationally-based constraints  
to estimate climate sensitivity by Annan and  
Hargreaves (2006)” by Henriksson et al. (2010)” by  
J. D. Annan and J. C. Hargreaves***

**Anonymous Referee #1**

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Annan and Hargreaves reply to a comment of Henriksson et al. (2010) on a paper published by them in 2006 (Geophys. Res. Lett.). The criticised paper was not revolutionary, in terms of statistics and presented ideas from Bayesian modeling. The paper of Henriksson et al. criticises theoretical points in the original 2006 paper. It turns out that their demonstration does not bring a significant added value to the original results.

All alternatives for dependence analyses or prior distribution assumption might not have been performed by Annan and Hargreaves (2006), but they claim that this is marginal and at most a question of taste.

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From my point of view, the practical impact of such a potential overlook is minor (which could be interesting information in itself). Their short paper essentially suggests that "statistical consensus" varies with time and that Bayesian models for climate studies need more investigations.

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Interactive comment on Clim. Past Discuss., 7, 431, 2011.