

***Interactive comment on “Northern high-latitude  
climate change between the mid and late  
Holocene –  
Part 1: Proxy data evidence” by H. S. Sundqvist  
et al.***

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Received and published: 29 August 2009

We have a question concerning one of the main issues raised by Referee #1. Under his/her specific comments, the following is stated at the second bullet point:

"Put formally, the individual climate estimates at each time (or space) point are marginal estimates; concerning climate at each point separately. In order to obtain a reliable estimate of the change in climate between the two points, a joint statement of how the two estimates vary together is needed. Given that the two time points under consider-

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ation here are several thousand years apart, this may be relatively unimportant, but the authors must convince us of that. However, even that would not be enough to validate the methodology used here since these authors are also working with climate reconstructions that are near to one another in space and the same concern about joint and marginal estimates holds here too."

We appreciate that this comment is crucial for our analysis. We assume that Referee #1 is well familiar with this issue and, we would therefore simply like to ask Referee #1 for guidance to some literature where this problem is discussed. Any further relevant information, from anyone, that could be of use for us in this context is also welcome.

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Interactive comment on Clim. Past Discuss., 5, 1819, 2009.