

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.

H. Renssen (Editor)

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Received and published: 21 September 2009

Dear authors,

All referees have now commented on your paper. They all agree that it is commendable to attempt quantifying uncertainties in proxy-based reconstructions, as this an important, but difficult issue in paleoclimatology. However, the referees have also raised some serious concerns about the methodology that you have used in your analysis. In particular, two issues stand out in their comments: 1) The effect of co-variance on the

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error estimates, and 2) the assumption that the uncertainties are normally distributed. The serious concerns on the methodology make the present version of the manuscript unsuitable for publication in *Climate of the Past*.

My recommendation is to thoroughly revise the manuscript, thereby carefully addressing all concerns raised by the reviewers. The revised paper may be submitted to *Climate of the Past*. I anticipate that a revised version submitted to CP will be sent out for further review.

Yours sincerely, Hans Renssen

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

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