

## ***Interactive comment on “Spatial structure of the 8200 cal yr BP event in Northern Europe” by H. Seppä et al.***

**H. Seppä et al.**

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We thank the two referees for their useful and positive comments.

Our response to the comments by referee 2 (anonymous)

-Abstract: “if what” - if there was not the alternative explanation, presented in the next sentence.

-Introduction: “Abrupt climate changes...” This is a valid point. We have deleted the first sentence.

-P167. We have added a reference to LeGrande et al. 2006.

-P168. While the peak of the event lasted only 70 years, many records, including tree-ring and varve records in Europe, indicate a colder period of about 200-300 years.

-P173. This is a valid point. We have deleted the direct reference to NAO.

-P177. This is correct. We have deleted the reference to Vellinga and Wood.

-P178. This may be true, but in this case a damped response would be more likely if there had been a minor warming (and not cooling) during the 8.2 event.

Our response to the comments by referee 1 (U. von Grafenstein)

-P166. We have deleted the last sentence of the abstract.

-P178-179, lines 27-12. By no means do we suggest that scientists should give up work on biological proxy techniques in these areas. We simply state that in the arctic areas biological proxies, such as chironomids and pollen, may not be sensitive to winter temperature changes.

-We have added a reference to Duplessy et al. 2005 (not 2004).

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Interactive Discussion

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