

Interactive comment on “Climate fluctuations during the Holocene in NW Iberia: high and low latitude linkages” by L. D. Pena et al.

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Received and published: 31 January 2008

The manuscript is focused on the description of new Holocene time series based on analyses of a sediment core in North West Iberia.

Despite the importance of characterizing and understanding the spatial and temporal characteristics of Holocene climate and oceanic variability, the present manuscript cannot be accepted for publication in *Climate of the Past*.

The two reviewers of the manuscript raise important points which must be addressed prior to a new submission :

- a complete description of the local sedimentation processes and of the sedimentation of the core;
- a complete description of the age model and of the dating uncertain-

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ties and possibly an improvement of the radiocarbon chronology; - an analysis of the percentage of organic matter, and its isotopic composition as a tracer of continental organic matter; - an analysis of the modern water isotopic composition in order to trace the influence of continental runoff; - a detailed explanation of the method used to generate a regular data sampling and its consequences for the spectral analysis; an improvement of the spectral analyses with a particular focus on the stationarity problems; - a comparison with other records and analyses of millennial scale variability in the Atlantic sector.

I encourage the authors to take into account the reviewers's suggestion, to improve the description of the site and of the core and its sedimentary and oceanographic context. Improved age scale and spectral analyses are clearly required to support the discussion. These modifications are larger than major revisions and therefore require to work on a new manuscript, which could be submitted to *Climate of the Past* as a new submission.

Interactive comment on *Clim. Past Discuss.*, 3, 1283, 2007.

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