**Climate
of the Past
Discussions**

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Interactive
Comment

Interactive comment on "Mid-Holocene regional reorganization of climate variability" *by* K. W. Wirtz et al.

V. Masson-Delmotte (Editor)

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Dear authors,

We have now received two reviews of your manuscript. Both reviewers appreciate your large data collection and the efforts to investigate changes in Holocene climate variability, but they raise important caveats. In the present state, your manuscript cannot be considered for publication in Climate of the Past. I suggest that you take carefully into account their suggestions for a future new submission.

Amongst the reviewers's comments, you can see several points that must be addressed in a new manuscript :

- the problem of age scales. Consider for instance the dating method for ice cores,

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such as Greenland ice cores or Sajama ice core. Compare the age scale uncertainties between GISP2 and GICC05. Analyse the importance of these age scales regarding the power spectrum of the data. Your analyses must rely on solid dating basis and for this you should perform a detailed quality control of the initial records used here, perform some sensitivity tests within uncertainties, and test the coherence of age models set up over time.

- the problem of non stationarity, and the arbitrary selection of a specific date to split the records. You are encouraged to define objectively where to split the records, based on their own power spectrum and non stationary potential behaviors.

- the clustering method should be better explained, and there should be a discussion of climate processes involved in regional signals.

- the link with civilizations is potentially important but reviewers suggest that it is not discussed with enough depth.

Sincerely,

Valerie Masson-Delmotte.

Interactive comment on Clim. Past Discuss., 5, 287, 2009.

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