

Interactive comment on “Hydrological evidence for a North Atlantic oscillation during the Little Ice Age outside its range observed since 1850” by C. Martín-Puertas et al.

J. Guiot (Editor)

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Dear authors,

The three reviewers have pointed out the fact that the precipitation signal in the final chronology is far to be strong. The R^2 is 0.20, which is significant but not sufficient to provide a reliable reconstruction. Examination of Fig.2b shows that the inter-tree variance is at least equal to the inter-annual variance of the mean series. This 20% of reconstructed precipitation variance is then very small according to the noise. This is confirmed by Fig 3c where it appears that as well low precipitation events than high ones are poorly reconstructed. As the main point of the paper is the dry conditions

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of the LIA, the conclusions are not supported. Even if the criticisms of the reviewers are carefully taken into account, it will never be possible to improve sufficiently the reconstruction with these data and then the paper has little chance to be acceptable for CP.

Best regards

J Guiot

Interactive comment on Clim. Past Discuss., 7, 4149, 2011.