

## ***Interactive comment on “Millennial-to-centennial patterns and trends in the hydroclimate of North America over the past 2000 years” by Bryan N. Shuman et al.***

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It is a good point that “low frequency” variation in systems with autoregressive memories of various durations can arise both from low frequency and high frequency climate forcing, and that it is not always clear which factor (or their interaction) is important for a given record.

We agree that all of the datasets involved have both strengths and limitations - and that they can have unique sensitivities to climate variations of different duration and in different variables. We propose to add brief discussions of limitations to sections 2.1.2-2.1.5 where we describe the different archives used in our analysis. We appreciate the

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reference to the Huybers et al. paper.

Overall, we had not intended our comments or analysis as a critique of dendroclimate records, but we can see that our wording did not fully clarify our intention to evaluate the patterns in the types of data normally used to study long-term changes extending through the Holocene. Please see our related responses to the two reviews and our proposed title revision: “Placing the Common Era in a Holocene Context: Millennial-to-centennial patterns and trends in the hydroclimate of North America over the past 2000 years.”

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