

Comments to the author – Chantal Camenisch:

Please add in your article briefly your explanations in your author's response to questions 2 (alternative NAO reconstructions) and 5 (regression analysis to shorter data segments) of the original referee report 2.

Question 2:

The requested paragraph was added as the last in Section 5 Discussion:

“Finally, note that the outcomes of the attribution analysis may also be subject to specific properties of the explanatory variables used, particularly in case of the reconstructed indices of internal climate variability modes (NAO, AMO, PDO). This issue has been previously investigated in Mikšovský et al. (2019), where multiple independent reconstructions were used for each of these indices (including NAO reconstructions by Trouet et al., 2009 or Ortega et al., 2015, AMO reconstruction by Gray et al., 2004, and PDO reconstructions by MacDonald and Case, 2005 or Shen et al., 2006). The series based on data by Luterbacher et al. (2001) and Mann et al. (2009) were shown to carry the relatively strongest link to central European climate variability, and were therefore employed in this current analysis. Even so, the problem of predictor-related robustness of the attribution analysis remains an essential one and an issue worthy of revisiting, especially when new relevant proxy-based data arrive in the future.”

Question 5:

The requested explanation was added to Section 4.3 Attribution analysis at the end of the first paragraph:

“... Note that, unlike in prior analysis presented in Mikšovský et al. (2019), the El Niño – Southern Oscillation (ENSO) was not included among the explanatory factors due to largely negligible influence exhibited by the available ENSO reconstructions covering our target period. We also do not present results obtained separately for instrumental and pre-instrumental periods as was done in Mikšovský et al. (2019), because such division tends to magnify uncertainties pertaining to identification of slow-variable components in climatic time series. Furthermore, outcomes for PDSI are not shown due to the long memory component in this drought index, making proper pairing of predictand and predictors problematic without additional transformations.”

All new references were added to their list.