Climate of the Past Discussions

Clim. Past Discuss., author comment AC3
https://doi.org/10.5194/cp-2022-10-AC3, 2022

Additional reply on RC2

Duncan Pappert et al.

Author comment on "Statistical reconstruction of daily temperature and sea level pressure in Europe for the severe winter 1788/89" by Duncan Pappert et al., Clim. Past Discuss., https://doi.org/10.5194/cp-2022-10-AC3, 2022

As outlined in our first reply, we have a clear idea of how to restructure the paper (which was judged as "well written" by reviewer 1). We will revise the paper according to our reply. Below are additional replies to minor comments.

Comment: "Please be careful of terminology when describing the method, I'm still not quite sure if 'post-processing' and EnKF mean the same thing, or whether either of them is included in ARM."
Reply: We will better define our terminology. Our approach goes back to Pfister et al. (2019), where we applied EnKF to update temperature and quantile mapping to debias precipitation data and used "post-processing" as a summary term for both methods. Here we apply EnKF to both variables, temperature and pressure, so there is no need for this terminology except consistency with Pfister. We will explain that.

Comment: "They might end up with more than one paper"
Reply: The entire study was already split into two papers, of which this is the second. I think we can safely keep it as one paper by dropping the additional analyses of other cold episodes as well as restructuring and shortening as indicated in our first Reply.

Comment: "I'd like to see it successfully published."
Thanks!