

Earth Syst. Sci. Data Discuss., referee comment RC2
<https://doi.org/10.5194/essd-2022-47-RC2>, 2022
© Author(s) 2022. This work is distributed under
the Creative Commons Attribution 4.0 License.

Comment on essd-2022-47

Anonymous Referee #2

Referee comment on "A past, present and future perspective on the European summer vapour pressure deficit" by Daniel Balting et al., Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2022-47-RC2>, 2022

Dear Sir and Dear Madam,

This manuscript is a concerted and cooperative effort for investigating the long-term trend in summer VPD over Europe throughout the past, present, and future. The Author utilised a network of tree-ring $\delta^{18}\text{O}$ chronologies for the first time to reconstruct the European summer VPD for the past four centuries. The Material and Methods have been clearly described and comprehensive analyzes have been performed. In the results and conclusion, the author did an impressive job in investigating and discerning the spatial and temporal changes in VPD. Concerning the hot topic and critical situation of the current changing climate, the content of this research is requisite and very practical for addressing the diverse effects of climate change on the ecosystem.