

Earth Syst. Sci. Data Discuss., referee comment RC1
<https://doi.org/10.5194/essd-2022-29-RC1>, 2022
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Comment on essd-2022-29

Anonymous Referee #1

Referee comment on "HomogWS-se: a century-long homogenized dataset of near-surface wind speed observations since 1925 rescued in Sweden" by Chunlüe Zhou et al., Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2022-29-RC1>, 2022

The manuscript entitled "HomogWS-se: A century-long homogenized dataset of near-surface wind speed observations since 1925 rescued in Sweden" submitted to ESSD created a century-long homogenized near-surface wind speed over Sweden. Generally, the manuscript is logical clarity, and the work is very meaningful for near-surface wind speed studies. I clearly recommend publication after some minor revisions.

Specific:

1. L45: remove "our".

- In Figure 4, I see a nice work in the homogenization of near surface wind speed, while in Figure 4b there is a distinct peak around 1990, were there extreme weather in this year?
- In Section 3.3, the authors show the results of raw and homogenized WS anomaly series averaged at the 13 stations, and also compared the stilling and recovery trends of different datasets. From Figure 5, I notice that there is a relatively serious lack of data in some stations since 1995, so the averaged weights in different periods is also different, the authors should add some discussions for this issue.
- In Figure 6, the authors could also add the results of geowind, which could help the readers recognize the wind speed changes under the influence of internal variability.