Wind Energ. Sci. Discuss., editor comment EC1
https://doi.org/10.5194/wes-2021-68-EC1, 2021
© Author(s) 2021. This work is distributed under
the Creative Commons Attribution 4.0 License.

Comment on wes-2021-68

Andrea Hahmann (Editor)

Editor comment on "Approaches for predicting wind turbine hub-height turbulence metrics" by Hannah Livingston et al., Wind Energ. Sci. Discuss., https://doi.org/10.5194/wes-2021-68-EC1, 2021

Dear Hannah Livingston and co-authors,

The reviewers agree that since there are no signs of the success of your methodology under ideal conditions, they are unlikely also in complex terrain. Thus, the main objective of the manuscript is unfounded. The two reviewers also pointed out other significant deficiencies:

- There is no justification for using and assuming one single power law as a mathematical function.
- The quantity and choice of datasets were unfortunate. Mainly when the WFIP2 measurements at 10 m and 80 m are more than 1 km apart, and the location of the Perdigão measurements is in the valley. There are also inconsistencies in the data treatment.
- The statistical relationships shown are oversimplified, without error quantification or error bars.

You are welcome to respond to all comments. However, the problems appear very improbable to be fixed upon revision. In that case, the manuscript will likely be rejected for publication in WES.

Best regards,

Andrea Hahmann
WES Associate Editor