

Interactive comment on “The Tall Tower Dataset. A unique initiative to boost wind energy research” by Jaume Ramon et al.

Anonymous Referee #1

Received and published: 25 October 2019

General comments The proposed manuscript is considered by this referee as an example of a paper that clearly explains the steps followed to compile a new dataset of wind data and, mainly, the quality control process applied. The authors have a special interest in explaining in detail the QC process, as well as its reliability. The documentation of the dataset and the quality control software is accurate and are another strong point. My recommendation is to accept the manuscript with some minor revisions.

2) Tall tower dataset description. In the text (or even in the supplementary material) there is no information about how the wind direction and speed data is treated, i.e. scalar or vector averaging. This could be interesting as it has an impact in those cases with greater wind direction variance. Some information could be added, even if no information is available from the provider.

C1

In the same point, information on the total temporal coverage of the dataset is not supplied (i.e., extreme years).

3) The Quality Control Software Suite for Tall Towers (QCSS4TT) As the QC runs on data at a specific height, somewhere in the text it should appear that it is an absolute quality control, just to clarify which kind of QC process is being applied.

4) Results of the application of the QCSS4TT Although the presence of missing data is cited in the text, no reference is made to the percentage of the gaps with respect to the total number of observations. It could be interesting to know this information, before and after the application of the method. This information could be added in figure 5 (just as a suggestion).

Congratulations for the manuscript.

Interactive comment on Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2019-129>, 2019.

C2