

Interactive comment on “From standard wind measurements to spectral characterization: turbulence length scale and distribution” by Mark Kelly

Anonymous Referee #2

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The manuscript contains excellent work produced by the author (congratulations to him), and introduces a significant progress in the 'ease' of deriving Mann length scale through routine measurements. The work is highly relevant in the design process of wind turbines and wind farms, where Mann parameters are needed to simulate the random wind.

The work is also particularly impressive because of the range of sites it covers, i.e. practically all of them; homogenous flat onshore terrain, offshore and complex terrain.

I recommend that the results from this work be incorporated in the upcoming edition of the IEC 61400-1/3 standards.

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There are a few minor comments added in the attached PDF file. Once the author addresses these, then the manuscript can be accepted as it is.

Please also note the supplement to this comment:

<https://www.wind-energ-sci-discuss.net/wes-2018-14/wes-2018-14-RC2-supplement.pdf>

Interactive comment on Wind Energ. Sci. Discuss., <https://doi.org/10.5194/wes-2018-14>, 2018.

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