

Interactive comment on “Brief communication: A double Gaussian wake model” by Johannes Schreiber et al.

Anonymous Referee #1

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This is an interesting paper with some developments on the double Gaussian wind turbine wake model.

The model is validated with experimental measurements obtained with scaled wind turbine models and corresponding large eddy simulations.

The parameter k_r , representing the position of the gaussian extrema, is not fixed as in the original model, but is tuned to facilitate a suitable fit to the data. In addition, the wake expansion function $\sigma(x)$ is taken to be linear in the downstream distance x , as proposed by Bastankhah and Porte-Agel (2014).

The results show good agreement with the reference data, in particular the double Gaussian model showing better agreement than the single Gaussian model in the near

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wake.

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