WIND ENERGY SCIENCE
DISCUSSIONS

[WESD]

Interactive comment

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

Anonymous Referee #1

Received and published: 12 September 2019

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 kr, 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

Printer-friendly version

Discussion paper

wake.

Interactive comment on Wind Energ. Sci. Discuss., https://doi.org/10.5194/wes-2019-52, 2019.

Interactive
comment

Printer-friendly version

Discussion paper