Comparison of OpenFOAM and EllipSys3D actuator line methods with (NEW) MEXICO results - DTU Orbit (06/12/2018)

Comparison of OpenFOAM and EllipSys3D actuator line methods with (NEW) MEXICO results: Paper

The Actuator Line Method exists for more than a decade and has become a well established choice for simulating wind rotors in computational fluid dynamics. Numerous implementations exist and are used in the wind energy research community. These codes were verified by experimental data such as the MEXICO experiment. Often the verification against other codes were made on a very broad scale. Therefore this study attempts first a validation by comparing two different implementations, namely an adapted version of SOWFA/OpenFOAM and EllipSys3D and also a verification by comparing against experimental results from the MEXICO and NEW MEXICO experiments.

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