

Fig. 5 Left: simulated and measured speed-up profiles at M1. *Right*: speed-up profiles at M2

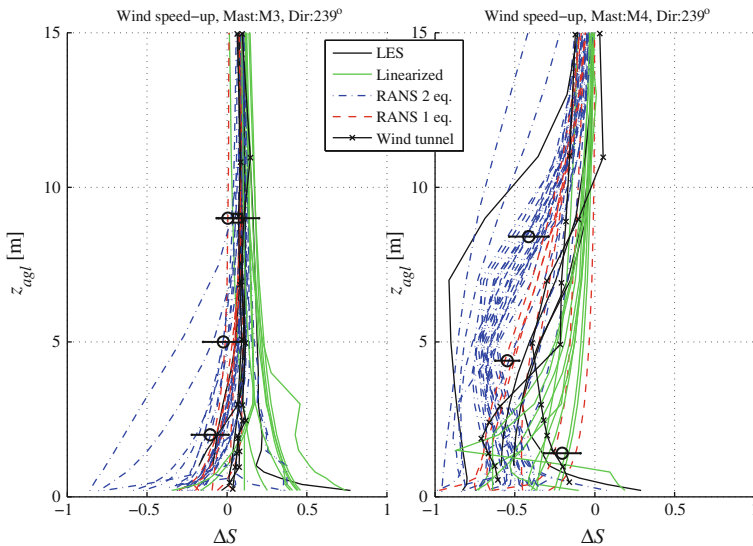


Fig. 6 Left: simulated and measured speed-up profiles at M3. *Right*: speed-up profiles at M4

The cup measurements at $z_{agl} = 9$ m appeared unreliable in this case. As seen in Table A2, the statistics from this cup are based on only two 10-min time series. At M3 and M4, the RANS models appear to have the most accurate speed-up predictions with the experimental methods showing reasonable results.

To quantify the errors of the simulated speed-up, we define the error by

$$R_S = 100 (\Delta S_s - \Delta S_m) \quad (15)$$