

**Subaqueous barchan dunes in turbulent shear flow.
Part 2: Fluid flow**

— **Supplementary Material** —

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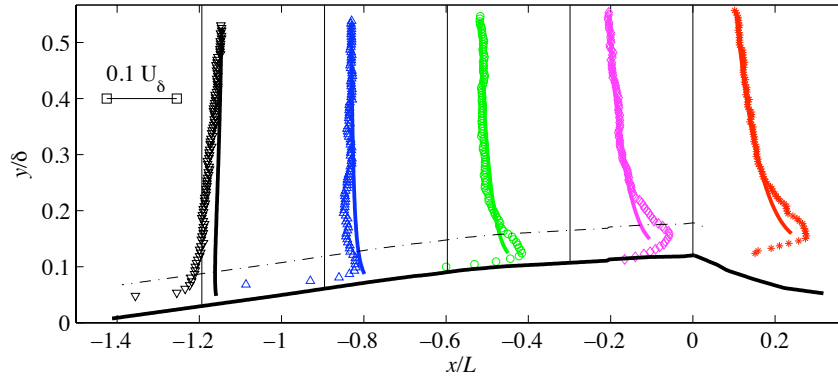


FIGURE 1. Profiles of the Lagrangian speed-up ΔU_L over the dune; (—), Bernoulli prediction with the streamline curvature included; (- · -), upper limit of the inner layer $y_a = \delta_i$. $Re = 14300$, $L = 28$ mm, $H = 3.6$ mm.

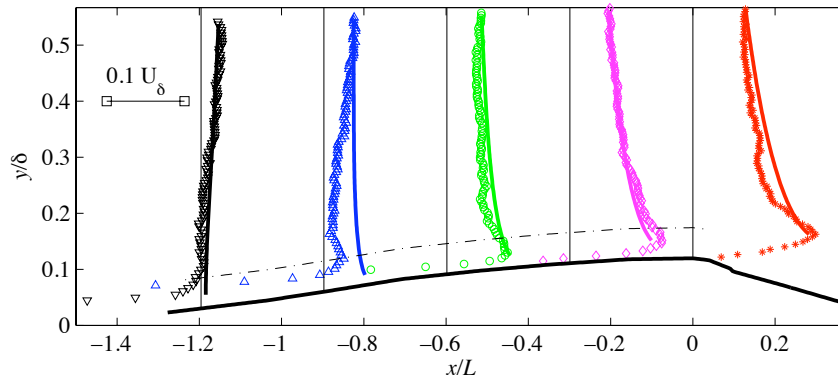


FIGURE 2. Same as Figure 1 for $Re = 16200$, with $L = 27$ mm, $H = 3.6$ mm.

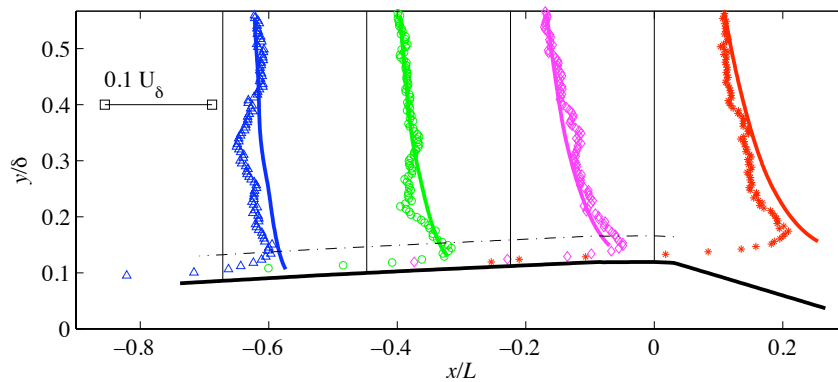


FIGURE 3. Same as Figure 1 for $Re = 18800$, with $L = 22$ mm, $H = 3.6$ mm.