

FIGURE S1. Conditional statistics and correlations for a surface bump (left column) and a dimple (right column) at : correlation, correlation, and top view of the conditionally averaged and vectors of in-plane velocity components at .

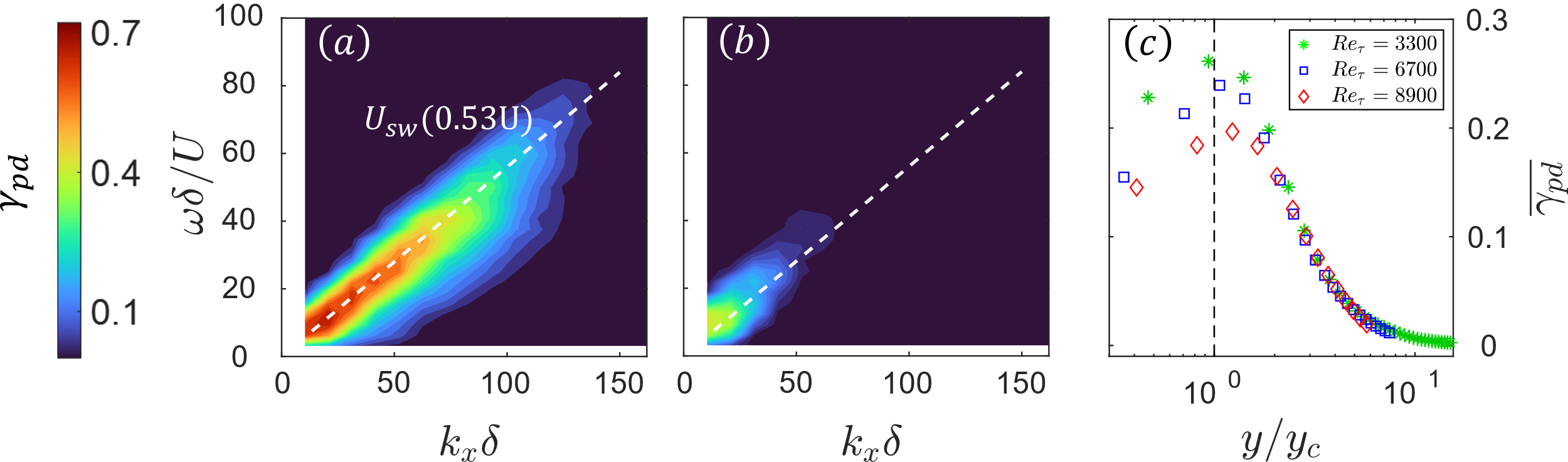


FIGURE S2. Pressure-deformation coherence spectra , where , and are the cross and auto spectra of pressure and deformation, respectively. Results are shown for at: , i.e. , and , i.e. . Dashed lines show . Wall-normal profiles of average coherence, conditioned on .