



Figure 59.2: Lagrangian tracer motion in a free surface flow. 3.6×10^4 particles were seeded randomly at the beginning. Snapshots are taken at $t/T = 0.65$ (left) and $t/T = 3.90$ (right) where T is the large eddy turnover time. Clearly visible is the rapid formation of particle clusters in front-like structures. The surface flow is advanced in time on a grid with 256^2 grid points (Schumacher and Eckhardt, 2002).