



## Supplement of

## A new approach to understanding fluid mixing in process-study models of stratified fluids

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**Figure S1.** Time sequence of surging wave shoaling process shown as  $\rho'$  (top),  $\Omega$  (middle), and USP for the same variables (bottom). t = [62, 70, 75]s



**Figure S2.** Time sequence of plunging wave shoaling process shown as  $\rho'$  (top),  $\Omega$  (middle), and USP for the same variables (bottom). t = [55, 60, 65, 70]s



**Figure S3.** Time sequence of fissioning wave shoaling process shown as  $\rho'$  (top),  $\Omega$  (middle), and USP for the same variables (bottom). t = [100, 108, 120, 136]s