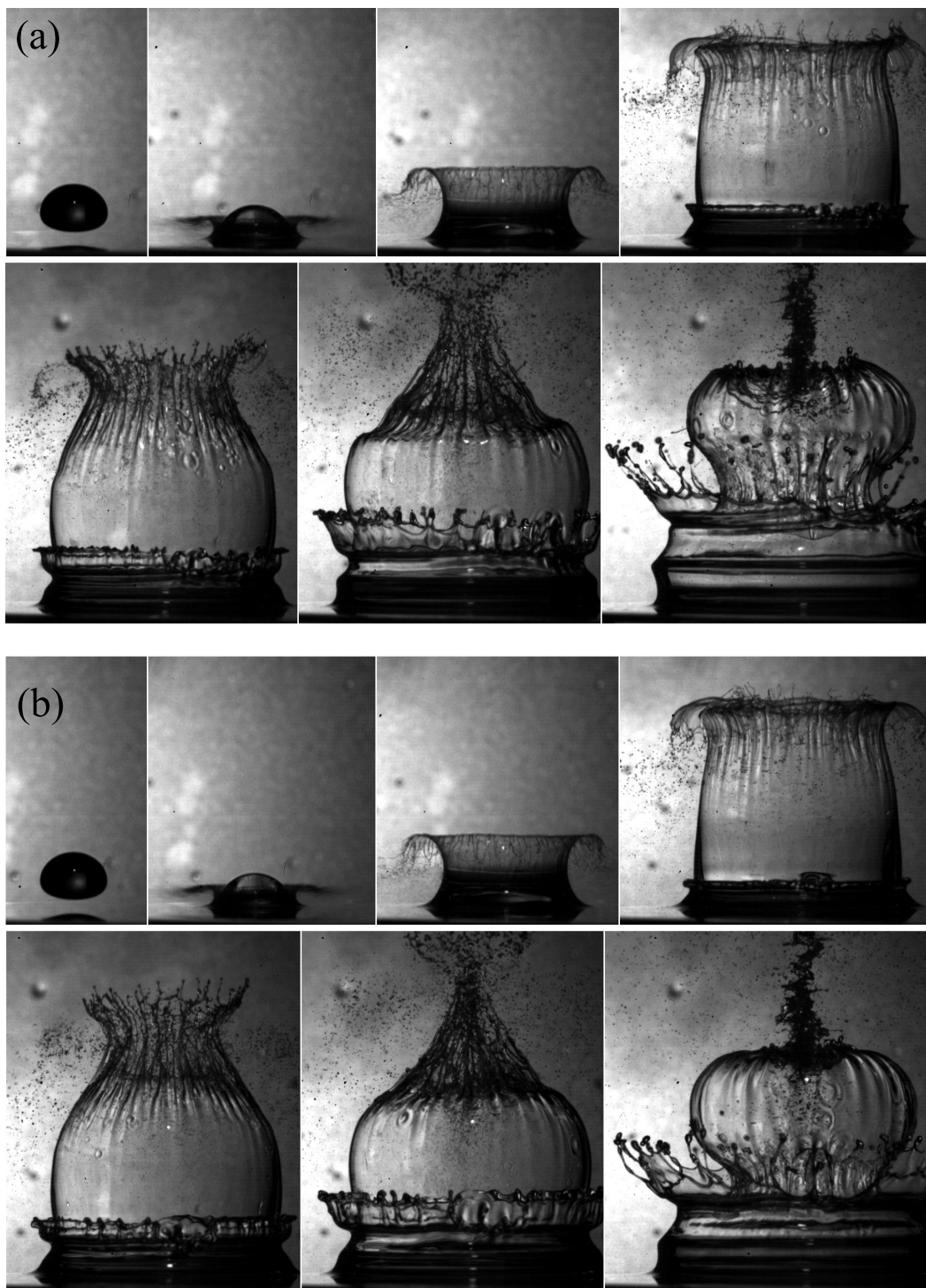


Supplemental Material for:
Double crown during drop impact on an immiscible shallow pool

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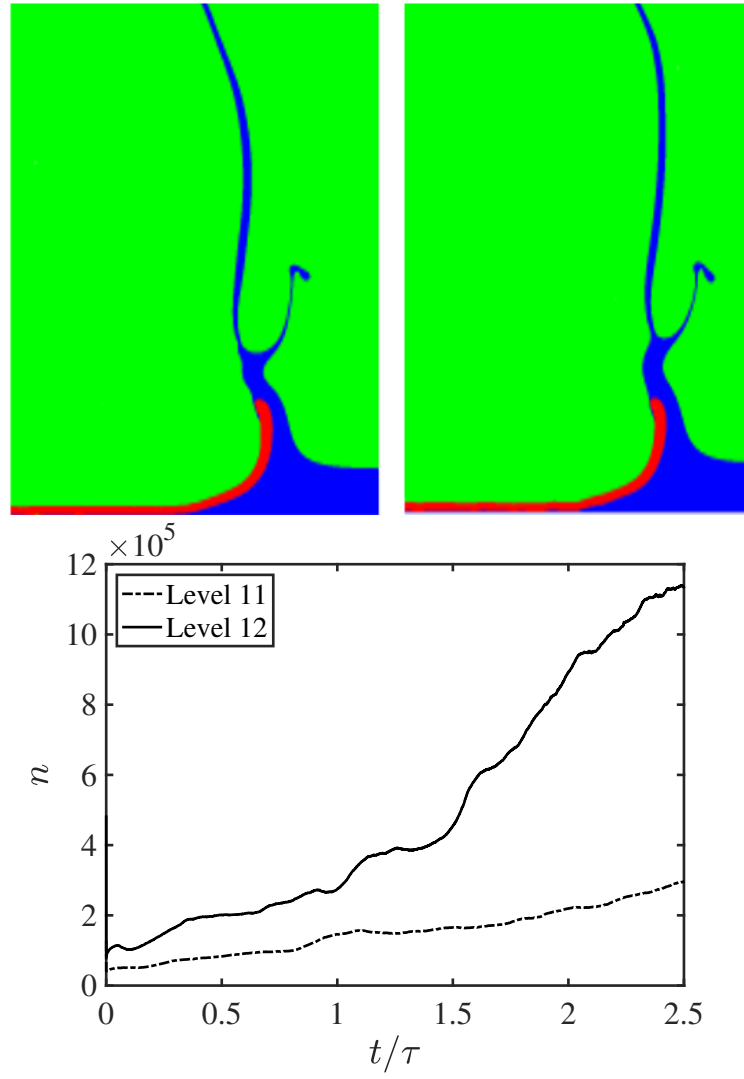
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Supplemental Figure S1. Sequence of video frames showing the repeatability of the experiments. Both impacts are for the same conditions as shown in Fig. 3 of the main manuscript. Frames shown at about the same times as in that figure.

A. Repeatability of Experiments



Supplemental Figure S2. A comparison between the axisymmetric simulations conducted at Level 11 and Level 12 for the double-crown formation at $t/\tau = 2.5$ is presented in the top panels, while the bottom figure illustrates the growth in total number of grid point, with time, for Level 11 and Level 12. The red color indicates the drop liquid, while blue is the film and green is air.

B. Axisymmetric Simulations