

Movie Captions

Movie 1: Water case Laser Induced Fluorescence (LIF) movie of a plunging breaker during jet formation and impact in the presence of filtered tap water. Movies captured at 650 fps and played at approximately 15 fps.

Movie 2: TX1 case LIF movie of a plunging breaker during jet formation and impact in the presence of 2.1 $\mu\text{mol/L}$ solution of Triton X-100 in filtered tap water. Movies captured at 650 fps and played at approximately 15 fps.

Movie 3: TX2 case LIF movie of a plunging breaker during jet formation and impact in the presence of 7.5 $\mu\text{mol/L}$ solution of Triton X-100 in filtered tap water. Movies captured at 650 fps and played at approximately 15 fps.

Movie 4: TX3 case LIF movie of a plunging breaker during jet formation and impact in the presence of 12.8 $\mu\text{mol/L}$ solution of Triton X-100 in filtered tap water. Movies captured at 650 fps and played at approximately 15 fps.

Movie 5: TX4 case LIF movie of a plunging breaker during jet formation and impact in the presence of 34.1 $\mu\text{mol/L}$ solution of Triton X-100 in filtered tap water. Movies captured at 650 fps and played at approximately 15 fps.

Movie 6: TX5 case LIF movie of a plunging breaker during jet formation and impact in the presence of 66.1 $\mu\text{mol/L}$ solution of Triton X-100 in filtered tap water. Movies captured at 650 fps and played at approximately 15 fps.

Movie 7: TX6 case LIF movie of a plunging breaker during jet formation and impact in the presence of 151.0 $\mu\text{mol/L}$ solution of Triton X-100 in filtered tap water. Movies captured at 650 fps and played at approximately 15 fps.

Movie 8: Water - 2 hour wait case LIF movie of a plunging breaker during jet formation and impact in the presence of filtered tap water after waiting 2 hours before wave generation. Movies captured at 650 fps and played at approximately 15 fps.

Movie 9: Water - 6 hour wait case LIF movie of a plunging breaker during jet formation and impact in the presence of filtered tap water after waiting 6 hours before wave generation. Movies captured at 650 fps and played at approximately 15 fps.

Movie 10: Water - 21 hour wait case LIF movie of a plunging breaker during jet formation and impact in the presence of filtered tap water after waiting 21 hours before wave generation. Movies captured at 650 fps and played at approximately 15 fps.