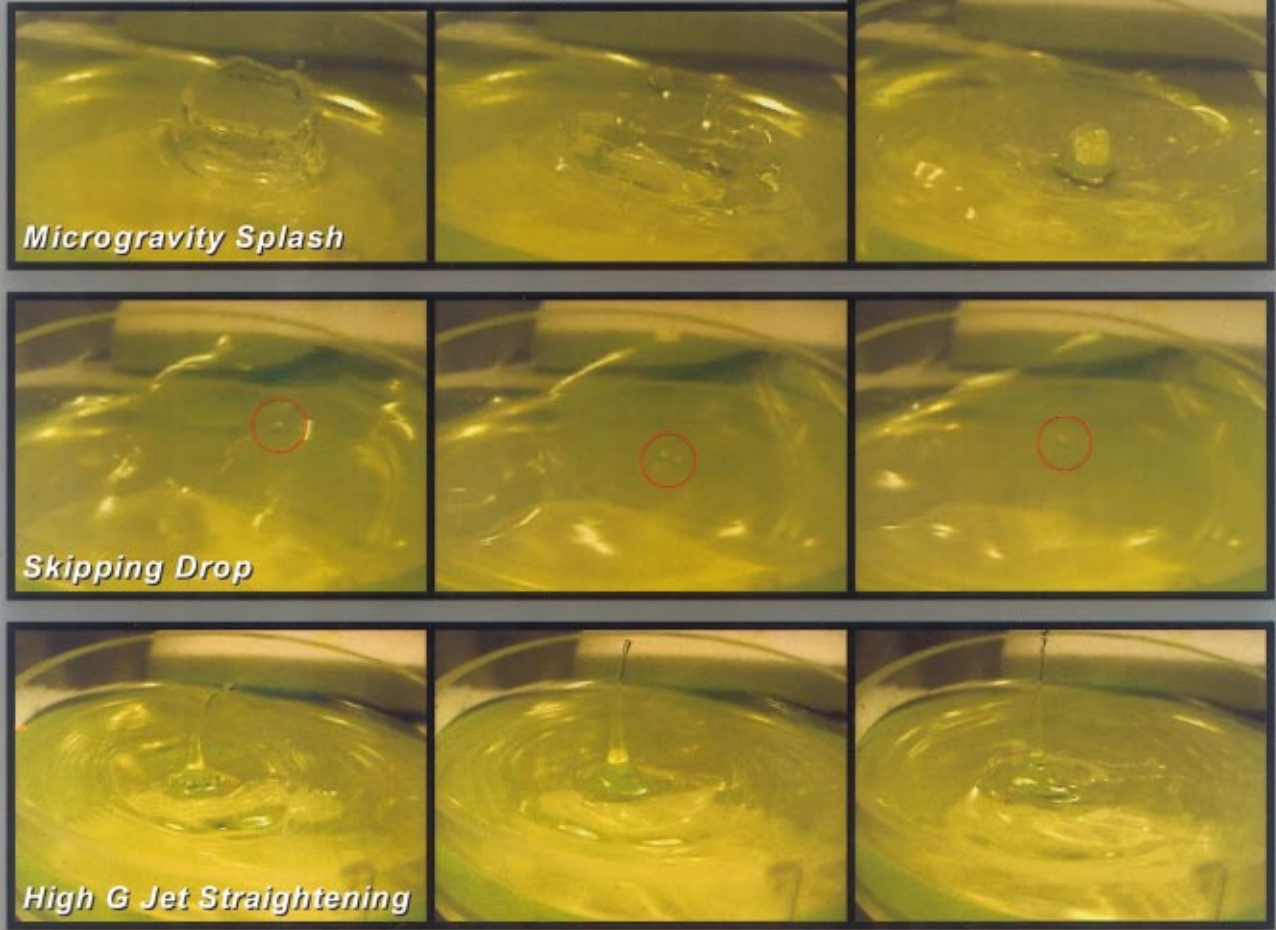




Time Progresses from Left to Right for all Panels



Splashing in Micro- and Hypergravity

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Observational length scales in surface tension controlled flows are expanded in microgravity, which can be achieved for subminute intervals during parabolic flights. We

launched droplets into a target fluid under such conditions (first panel). Edgerton’s classical crown of thorns is observed on a length scale larger than in 1 g (second panel), and relatively large ejecta are often observed to skip along the surface (third panel). During hypergravity intervals “bent” Worthington jets emerge from the source fluid but straighten out due to the axial influence of the body force of gravity (fourth panel).