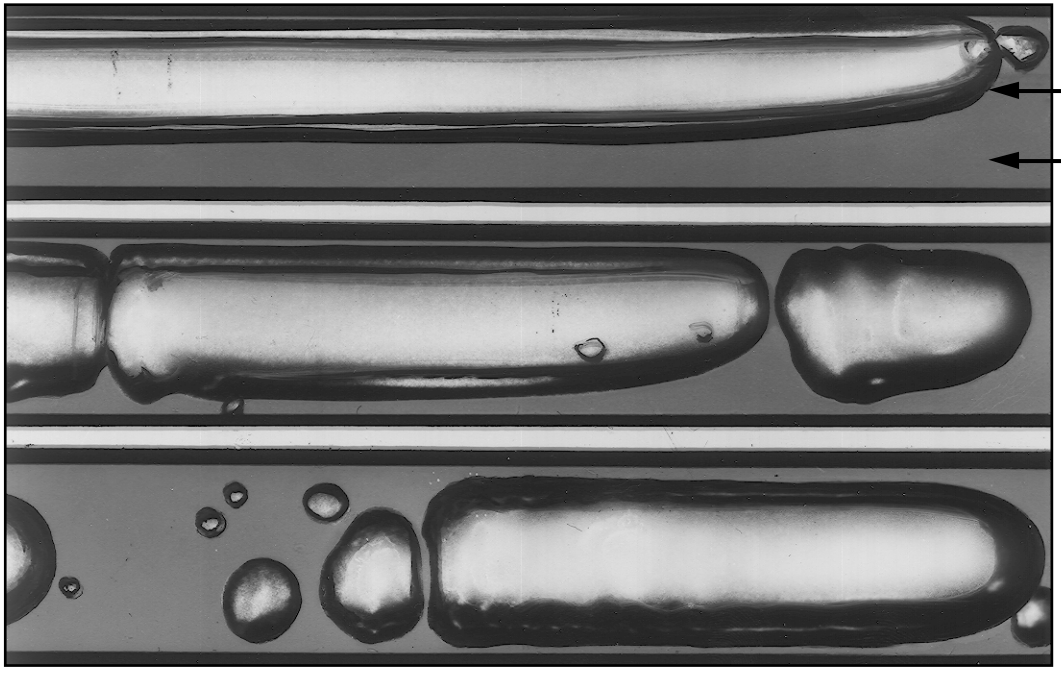
Glenn Research Center

Effect of G-Level on Multiphase Flow

Slug Flow
Normal Gravity
~1.0 G's

Slug Flow
Lunar Gravity
~0.17 G's

Slug Flow
Zero Gravity
<0.01 G's



Flow →

Air-water in 1.27 cm id tube
Superficial Gas Velocity ~0.43 m/s
Superficial Liquid Velocity ~0.07 m/s