

TEXUS-18 EXPERIMENT (1988)

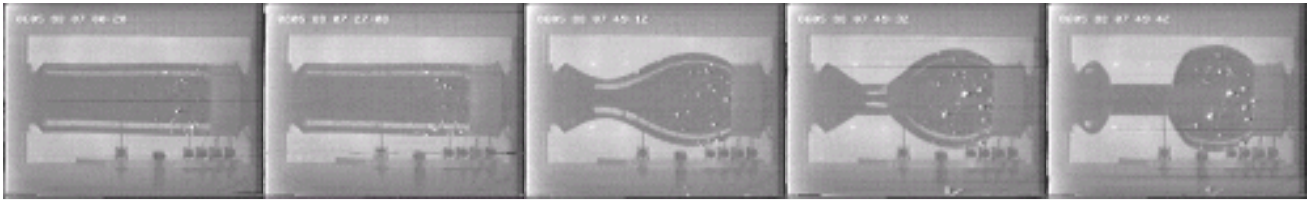


Fig. 1. A proof of the pinning of the liquid edge to the solidification front edge in Texas-18 (1988). An initially cylindrical liquid column of water (30 mm in diameter and 86 mm long) was unidirectionally cooled by putting the right disc to some $-60\text{ }^{\circ}\text{C}$. During the 5 minutes of microgravity 13 mm of ice were grown, as predicted, and when the rocket re-entry pushed the freezing liquid axially, it deformed in an amphora-like shape, anchored to both, the sharp edges of the dove-tailed left disc and to the freezing front edge.

[References \(see Publications\).](#)