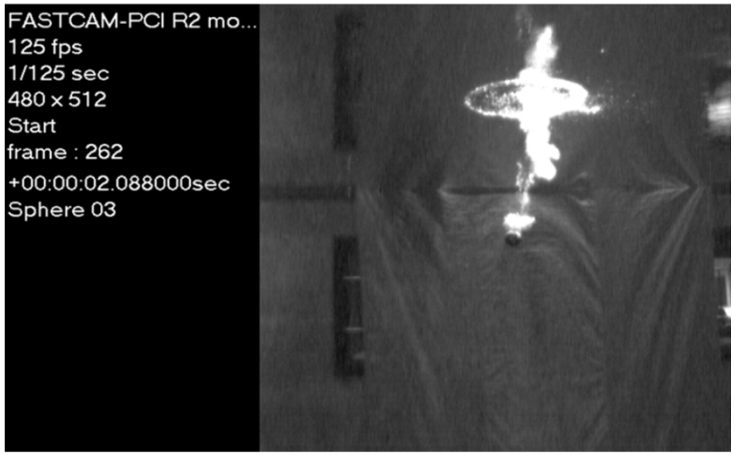
Development and Verification of the Navy's 3D Mine Impact Burial Prediction Modeling (IMPACT35)

PI: Peter C. Chu (pcchu@nps.edu), Sponsor: ONR (Manager: Brian Almquist)

2005-2006, Funding Level: $169,511



Brief Description

Development of the Navy's 3D mine impact burial model (IMPACT35) for predicting movement and trajectory of various mines in air, water, and sediment columns

NPS Thesis

Allen, C. "Mine drop experiments with operational mine shapes", MS in METOC, March 2006

Selected Publications

Chu, P. C., 2009: Mine impact burial prediction from one to three dimensions. *Applied Mechanics Reviews*,, **62**, 010802 (paper download).

Chu, P.C., and C.W. Fan, 2007: Mine impact burial model (IMPACT35) verification and improvement using sediment bearing factor method. *IEEE Journal of Oceanic Engineering*, **32** (1), 34-48 (paper download).