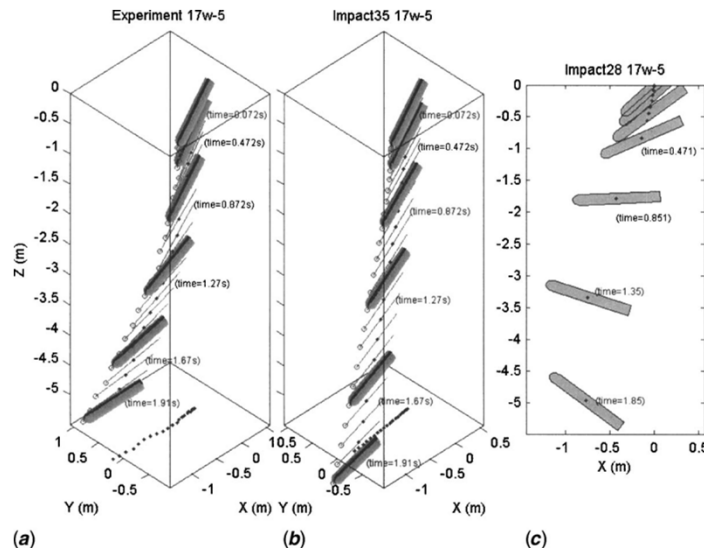


Upgrade of the Hydrodynamic Component of the Navy's Mine Impact Burial Prediction Model

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2003-2004, Funding Level: \$183,766



NPS Thesis

Michael Cornelius, "[Effect of a suspended sediment layer on acoustic imagery](#)", MS in METOC, June 2004 .

Selected Publications

Chu, P.C., and C.W. Fan, 2005: Pseudo-cylinder parameterization for mine impact burial prediction. *Journal of Fluids Engineering*, American Society of Mechanical Engineers, **127**, 1515-1520 ([paper download](#)).

Chu, P.C., M. Cornelius, and M. Wagstaff, 2005: Effects of suspended sediment on acoustic detection using reverberation. *Marine Technology Society Journal*, **39** (2), 105-109 ([paper download](#)).

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