

Technical Papers

Vessel Scheduling Model of a One-Way Port Channel

Xinyu Zhang, Xiang Chen, Mingjun Ji and Shun Yao

Hydrodynamic Modeling of the St. Lawrence Fluvial Estuary. I: Model Setup, Calibration, and Validation

Pascal Matte, Yves Secretan and Jean Morin



Hydrodynamic Modeling of the St. Lawrence Fluvial Estuary. II: Reproduction of Spatial and Temporal Patterns

Pascal Matte, Yves Secretan and Jean Morin



Influence of Fly Ash-Based Geopolymer Binder on the Sedimentation Behavior of Dredged Mud

Mohamed Jaditager and Nagaratnam Sivakugan

Study of the Bed Velocity Induced by Twin Propellers

A. Mujal-Colilles, X. Gironella, A. J. C. Crespo and A. Sanchez-Arcilla



Energy Method for Approximating Overland Tsunami Flows

David L. Kriebel, Patrick J. Lynett, Daniel T. Cox, Catherine M. Petroff, Ian N. Robertson and Gary Y. K. Chock

Hydrodynamic Characteristics of Vertical Cellular Breakwater

Lamanto T. Somervell, Santosh G. Thampi and A. P. Shashikala

Influence of Channel Shape on Wave-Generated Parameters by a Pressure Source in Shallow Water

Mohammadreza Javanmardi, Jonathan Binns, Martin Renilson and Giles Thomas

Equilibrium Scour-Depth Prediction around Cylindrical Structures

N. S. Tavouktsoglou, J. M. Harris, R. R. Simons and R. J. S. Whitehouse

Temporal and Spatial Evolution of Potential Energy, Kinetic Energy, and Momentum Flux in Tsunami Waves during Breaking and Inundation

Roberto Marivela-Colmenarejo, Robert Weiss and Costas E. Synolakis

Network Capacity Estimation of Vessel Traffic: An Approach for Port Planning

Xavier Bellsolà Olba, Winnie Daamen, Tiedo Vellinga and Serge P. Hoogendoorn



Pressures and Forces on an Oscillating Water Column-Type Wave Energy Caisson Breakwater

S. John Ashlin, V. Sundar and S. A. Sannasiraj

Simulating Regular Wave Effects on a Pile-Moored Floating Breakwater Using a Modified WCSPH Method

Ehsan Delavari and Ahmad Reza Mostafa Gharabaghi

Scour Development around Large-Diameter Monopiles in Cohesive Soils: Evidence from the Field

John M. Harris and Richard J. S. Whitehouse

Settling Mechanism for Ternary-Type Geocontainers Dumped from a Bevel

Xinxin Liu, Yiming Shu, Ke Gu and Qiancheng Liu

Bay Flooding through Tidal Inlet and by Wave Overtopping of Barrier Beach

Nobuhisa Kobayashi and Tingting Zhu

Equilibrium-Type Response Model for the Sediment Volume of Dredging and Disposal Areas

[Thijs Lanckriet](#), [Davy Depreiter](#) and [Gijsbert van Holland](#)

Coastal-Storm Model Development and Water-Level Validation for the North Atlantic Coast Comprehensive Study

[Mary A. Cialone](#), [Alison S. Grzegorzewski](#), [David J. Mark](#), [Mary A. Bryant](#) and [Thomas C. Massey](#)

Infragravity Seiches in a Small Harbor

[G. Cuomo](#) and [R. T. Guza](#)

Case Studies

Modeling the Hydrodynamic Performance of a Conceptual Storm Surge Barrier System for the Galveston Bay Region

[Jacob M. Torres](#), [Benjamin Bass](#), [John N. Irza](#), [Jennifer Proft](#), [Antonia Sebastian](#), [Clint Dawson](#) and [Philip Bedient](#)

Field Tests of Offshore Driven Piles Subjected to Lateral Monotonic and Cyclic Loads in Soft Clay

[Bin Zhu](#), [Zhou-jie Zhu](#), [Tao Li](#), [Jin-chao Liu](#) and [Yan-feng Liu](#)