

Reimann Solver in Geoclaw

Synthesis Paper

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1 Introduction

2 Wave Propagation Algorithm (WPA)

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3 Shallow Water Equations (SWE)

4 Reimann Problem for Wet/Dry States

5 Numerical Examples

References

- [1] David L. George. Augmented Riemann solvers for the shallow water equations over variable topography with steady states and inundation. 227(6):3089 – 3113, 2008.
- [2] Randall J. LeVeque, David L. George, and Marsha J. Berger. Tsunami modelling with adaptively refined finite volume methods. 20:211 – 289, May 2011.