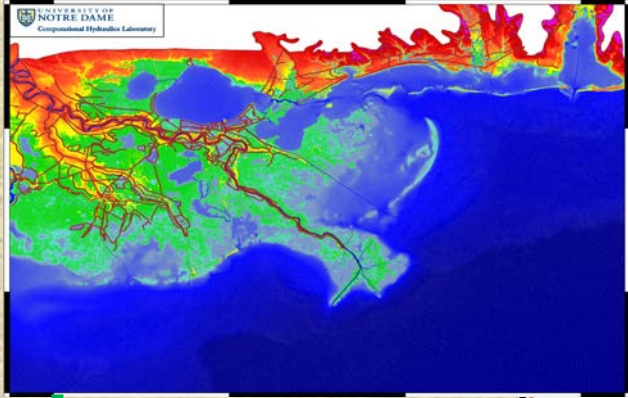


# STORM: a Scalable Toolkit for an Open Community Supporting Near Real-time High Resolution Coastal Storm Modeling

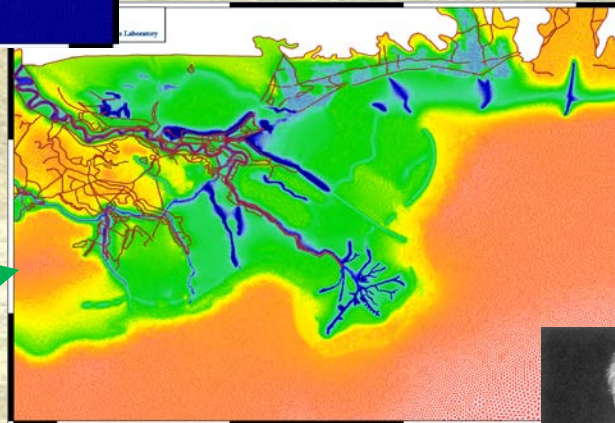
Hartmut Kaiser<sup>1</sup>, Joannes Westerink<sup>2</sup>, Rick Luettich<sup>3</sup>, Clint Dawson<sup>4</sup>

<sup>1</sup>Louisiana State University, <sup>2</sup>University of Notre Dame, <sup>3</sup>University of North Carolina, <sup>4</sup>University of Texas at Austin

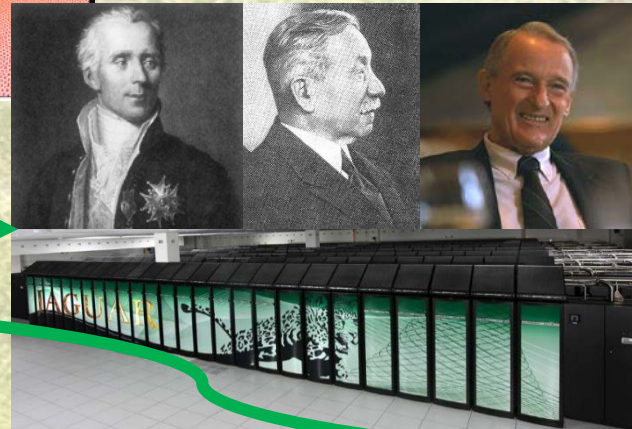
Geophysical systems



Unstructured grids

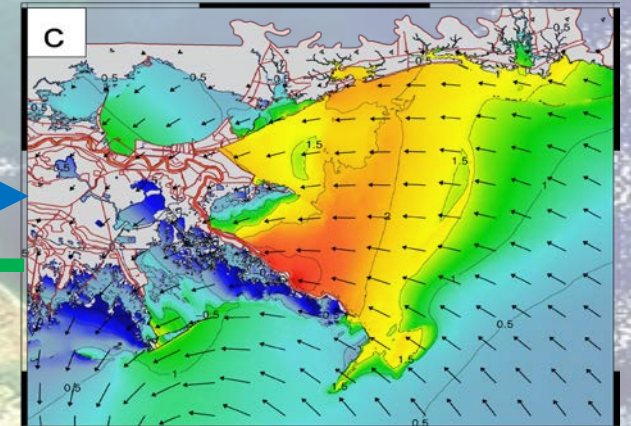


Pde's + FEM + HPC



Physics & forcing functions  
Model interfacing and interleaving

Ocean Responses



Dynamic  
grids/domains  
HPX & MPI-Zoltan