

**Department of Ocean and Resources Engineering**  
*Seminar*

**Tsunami Evacuation Maps for Hawaii**

by

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**Abstract**

The State of Hawaii officially began the effort to update its tsunami evacuation maps in January 2004. The existing maps, which are published in the telephone book, were developed in 1991 using a 1D model. In this effort, the ORE tsunami research group develops the inundation maps through reconstruction of major historical tsunamis using 2D models and compiles latest demographic and economic data related to tsunami disasters. A new developed comprehensive GIS database streamlines the modeling tasks and enables emergency managers to analyze the implications of tsunami events and evacuation procedures. Additionally a socio-economic analysis is carried out based on the inundation results to assist in delineating the evacuation zone. These map, model, and data products will provide the bases and guidelines for the production of the official evacuation maps. The ORE tsunami research group will present the latest progress of this project.