

Interactions between Tsunamis and Underwater Geological Processes

A Workshop sponsored by the Deep Ocean Exploration Institute and the Coastal Ocean Institute

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"Interactions between Tsunamis and Underwater Geological Processes"

**A workshop sponsored by WHOI's Deep Ocean Exploration Institute and Coastal Ocean Institute
October 30-31, 2006**

Tsunamis are among the most destructive natural hazards. The complex nature of tsunamis was vividly illustrated by the failure of warning the deadly Dec. 26, 2004 tsunami in the Indian Ocean and a false alarm following the March 28, 2005 earthquake in the same region. In order to more accurately forecast future tsunamis and to mitigate their impacts on coastal regions, the scientific community must significantly improve our understanding of the fundamental mechanisms of how tsunamis are triggered by underwater earthquakes, submarine landslides, volcanic eruptions, and other geological processes. This workshop will specifically discuss existing knowledge and future research directions in two important research areas:

- 1) Processes of seafloor motion that generate tsunami waves, and
- 2) Dissipation and run-up processes in the coastal zone.

The Woods Hole Oceanographic Institution has strong physical oceanography and marine geology and geophysics departments. This workshop will promote the international, US, and WHOI research communities to accelerate research on the above topics.

The workshop includes invited talks, posters, and discussion sessions. It is open to US and international researchers, engineers, tsunami program managers, and graduate students. Participants are requested to register online.

The workshop will be held on Monday, Oct. 30, and Tuesday morning, Oct. 31, 2006 in Clark Laboratory Conference Room 507 on the Quissett Campus of the Woods Hole Oceanographic Institution. Please contact Christina Cueller (ccuellar@whoi.edu) for further information.

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