State of Alaska 2014 Activities

Division of Homeland Security and Emergency Management

Geophysical Institute, University of Alaska Fairbanks

NTHMP Annual Meeting
Portland, January 2015
Alaska coastal communities at risk of tsunamis
Objective 1: Mapping and Modeling

- **Cordova, Tatitlek** - report is published
- **Chenega** – report is published
- **Elfin Cove, Gustavus, Hoonah** – report is in press
- **Unalaska, Akutan** – report is accepted
- **Sand Point, Yakutat** – reports are in review
- **Chignik, Nikolski** – reports are in preparation
- **Kodiak Island, Western Aleutians** - Regional Assessment is in progress
Objective 1: Mapping and Modeling

1. DEM Verification efforts: Karluk, Larsen Bay, Chiniak, Ouzienki, Port Lions, Akhiok, and Old Harbor. These DEMs are currently being developed by NGDC. DEMs for Haines and Skagway are already developed.

2. Development of the methodology to construct maximum credible scenarios for various communities. Application of this technique to define tectonic sources for Sand Point, Unalaska/Dutch Harbor, Chignik, King Cove, Cold Bay and landslide-sources for communities in glacial fjords such as Yakutat, Juneau.
3. Assessment of the landslide-generated tsunami hazard in **Yakutat and Juneau**. Collaboration with University of Delaware on development of the coupled model.

**NHWAVE “Viscous Slide” => Alaska**

**NHWAVE “Viscous Slide” => FUNWAVE**

4. Modeling of the tsunami currents reveals some hazardous currents forming in narrow passages and near the tip of the narrow peninsulas.
Objective 1: Pedestrian Travel Time to Safety

Travel time to the boundary of the tsunami inundation zone

Travel time to the designated safe zones from the tsunami inundation zone only by roads

Guidelines need to be developed!
Alaska DHS&EM 2014 Highlights

• Kodiak Tsunami Operations Workshop
  • Over 30 participants from 15 communities
  • School presentations
  • Radio interview

• “Cordova Campaign”
  • Radio interview
  • Presentations (Schools, USFS, TSA, City Council, Filipino community)
  • Tsunami survivor remembrance ceremony

• Riskland: Remembering the 1964 Earthquake
  • Summer long exhibit display at Anchorage Museum
Alaska DHS&EM 2014 Highlights

• TSW Live Code Test
  • Complete community call-down
  • New EOC community contact database

• Alaska Shield 14
  • 9.2 Earthquake/Tsunami scenario
  • National Capstone exercise

• “Lunch and Learn at the Capitol”
  • Legislature presentation

• Alaska Assoc. of Harbormasters presentation
Alaska DHS&EM 2014 Highlights

• Unalaska visit
  • LEPC presentation
  • Harbormaster meeting
  • School presentations

• Siren Installations in SE Alaska
  • Klawock
  • Skagway
  • Craig
  • Ketchikan

• Evacuation Signage to Ketchikan and Craig

• Cordova TsunamiReady Recognition
EM’s from all 4 communities attended the Kodiak Tsunami operations workshop. This contributed to the success of the evacuations.
Alaska DHS&EM 2014 Highlights
Alaska DHS&EM 2014 Highlights

Craig

Skagway

Ketchikan
Alaska DHS&EM 2014 Highlights