

**TITLE: Communities Preparing for Tsunamis
International Tsunami Evacuation Drills**

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2005 Padang, Indonesia Tsunami Evacuation Drill:

The city of Padang is located on the southern coast of Sumatra Island. Over 4,000 persons participated in a simulated nearby coastal earthquake and local tsunami scenario. Padang sounded early warning siren alarms using mosque loudspeakers and emergency vehicles. Street tsunami evacuation signage guided people to inland safe refuge areas. The tsunami drill was coordinated by the State Ministry of Research and Technology (RISTEK) and various Indonesia government and non-government agencies.

2006 Phuket, Thailand Tablamu School Tsunami Evacuation Drill:

Tablamu School is located in Phang nga province, Thailand (on the SW coast of Thailand north of Phuket). The school conducted the country's inaugural school tsunami evacuation drill involving dozens of students. Students were led by teachers to the second floor of a newly constructed reinforced concrete building. Vertical evacuation is the only option for the school as it is situated along the coastline and surrounded by thick forest. Teachers conducted roll call to account for every student.

The school drill was coordinated by the Asian Disaster Reduction Center in Kobe, Japan. Video by Mr. Katsutoyo Kintsu, Supervisor of Disaster Education, Kita-Hirima Education Bureau, Hyogo Prefecture, Japan.

2006 Phuket, Thailand Kalim School Tsunami Evacuation Drill:

Kalim School near Phuket, Thailand conducted a school tsunami evacuation drill involving over 100 students. Teachers guided students to a pre-designated high ground safe area on a nearby hill. In preparation for the drill, the students presented a cultural "shadow puppet show" to raise awareness of tsunamis.

The school drill was coordinated by the Asian Disaster Reduction Center in Kobe, Japan. Video by Mr. Katsutoyo Kintsu, Supervisor of Disaster Education, Kita-Hirima Education Bureau, Hyogo Prefecture, Japan.

1986 and 1994 Hawaii, USA Actual Tsunami Evacuations:

A compilation of Hawaii TV news segments of two actual statewide Hawaii Tsunami Evacuations caused by large earthquakes in the north Pacific in 1986 and 1994. The Pacific Tsunami Warning Center issued Tsunami Warnings for both events, but the tsunamis turned out to be non-destructive. Statewide siren soundings and the Emergency Alert System (EAS) notified the public. Lifeguards cleared tourists off the beach while Civil Air Patrol Cessna aircraft announced the warning with aerial loudspeakers. Waikiki hotel guests conducted vertical evacuation, and there were massive traffic jams. It is estimated that the statewide evacuations cost the State of Hawaii over \$40 million in 1986 dollars.

2003 Hawaii, USA Ka'a'awa Elementary School Tsunami Evacuation Drill:

Ka'a'awa Elementary School on the island of Oahu and other statewide coastal public schools within tsunami evacuation zones are required to conduct an annual tsunami evacuation drill. Teachers lead students inland to a pre-designated safe area by pairing older and younger children together in a "buddy system."

2008 Hawaii, USA Kekaha Elementary School Tsunami Evacuation Drill:

Kekaha Elementary School was one of four schools in Kekaha on the island of Kauai that conducted a coordinated tsunami evacuation drill on March 7, 2008. Many organizations including Civil Defense, Police and Fire Department, and school officials planned the drill. A fire truck was used as a roadblock to enable the students to cross an intersection and proceed inland. The students took 10-20 minutes to reach the pre-designated safe area. Local businesses donated backpacks with water and energy bars for the students. This is an example of how a community can work together to prepare for a future tsunami and other natural hazards.

2007 Samoa Public Service Announcement for Tsunami Evacuation Drill:

Courtesy of the Ministry of Natural Resources and Environment, October 29, 2007.

2007 Samoa Tsunami Evacuation Drill:

Hundreds of Samoa coastal residents participated in a Tsunami Evacuation Drill. The drill was seen live on Samoa TV3 Emergency Broadcast through their National Disaster Management Office.

2006 Bali, Indonesia Tsunami Evacuation Drill:

Over 300 students on Sanur Beach participated in a Tsunami Evacuation Drill in Bali. A large billboard map on the beach depicted the tsunami evacuation inland routes to pre-designated safe areas. Large drums were pounded, simulating a strong earthquake occurrence to start the drill. The students proceeded inland along streets where police roadblocks were established to manage traffic. Emergency service agencies simulated search and rescue operations and the handling of injuries. The event was coordinated by the State Ministry of Research and Technology (RISTEK), Indonesia.

CREDITS:

2005 Padang, Indonesia Tsunami Evacuation Drill:

Lembaga Ilmu Pengetahuan Indonesia (LIPI), Palang Merah Indonesia (PMI), International Federation of Red Cross and Red Crescent Societies (IFRC)

2006 Phuket, Thailand Tablamu School Tsunami Evacuation Drill:

Katsutoyo Kintsu, Supervisor of Disaster Education, Kita-Hirima Education Bureau, Hyogo Prefecture, Japan

2006 Phuket, Thailand Kalim School Tsunami Evacuation Drill:

Katsutoyo Kintsu, Supervisor of Disaster Education, Kita-Hirima Education Bureau, Hyogo Prefecture, Japan

1986 and 1994 Hawaii, USA Actual Tsunami Evacuations:

KHON-TV, Hawaii, USA; KGMB-TV, Hawaii, USA

2003 Hawaii, USA Ka'a'awa Elementary School Tsunami Evacuation Drill:

Hawaii PBS Kid Science & Department of Education

2008 Hawaii, USA Kekaha Elementary School Tsunami Evacuation Drill:

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2007 Samoa Public Service Announcement for Tsunami Evacuation Drill:

Samoa Ministry of Natural Resources and Environment

2007 Samoa Tsunami Evacuation Drill:

National Disaster Management Office

2006 Bali, Indonesia Tsunami Evacuation Drill:

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