

Tsunami Warning and Engineering



Tsunamis cannot be prevented, but some of the damage caused by them can be.

Key Question: In what way do you think damage from tsunamis can be reduced?

Tohoku Tsunami Footage



- Watch [this video](#).
- What kind of damage did you see?
- Could anything be done to reduce some of this damage?



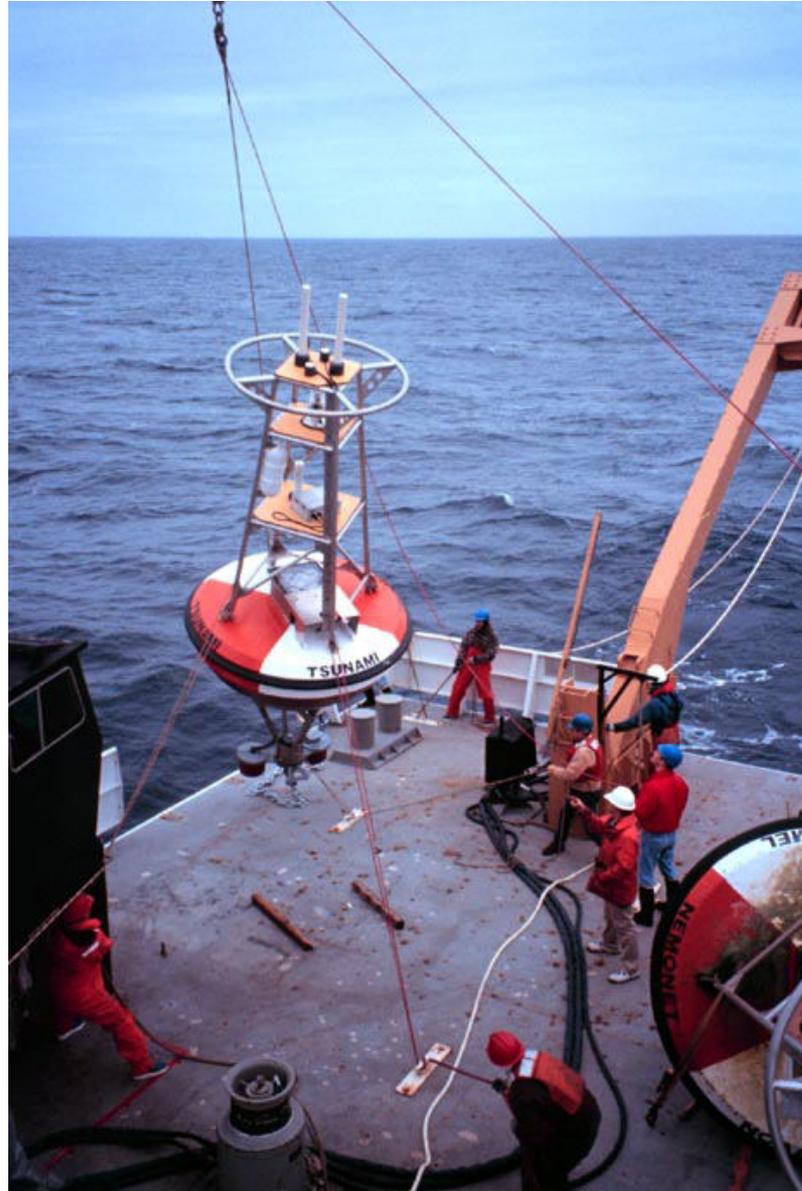
Tsunami Early Warning System

Early Warning starts when seismometers record an earthquake

Earthquake magnitude is important

What about tracking the wave?

[Early Warning Animation](#)



Tsunami Engineering



- Why do you think tsunamis are so destructive to buildings?
- What can be done to reduce some of this destruction?

Engineering Conclusions



Engineering solutions can reduce damage from tsunamis.
What engineering solutions did you come up with?



Many buildings along the Hilo, Hawai'i coast are built on pilings with the intention of withstanding flooding and tsunamis.
Photo by: Eric Muehling