Posters 2007 Humboldt County Fair





The 2007 Humboldt County Earthquake – Tsunami Room featured the Seven Steps to Earthquake and Tsunami Resilience

Welcome to the Earthquake and Tsunami Room





Making our North Coast Communities Tsunami Resilient

The most important take-away message



Protecting yourself from injury during the earthquake is where it all begins. You can't evacuate if you are incapacitated by the shaking!



As soon as it is safe to move, get your "grab and go" kit and walk to high ground or inland away from the coast. Take the time to put on shoes as debris may make walking hazardous. Use tsunami hazard zone signs to guide you to a safe area.



Tsunamis are TRICKY! Just when you think the waves are done, another damaging surge may arrive. The largest waves may arrive many hours after the first. Stay away from the coast until officials say it is safe to return.

Welcome to the Earthquake and Tsunami Room



Sponsored by the Redwood Coast Tsunami Workgroup





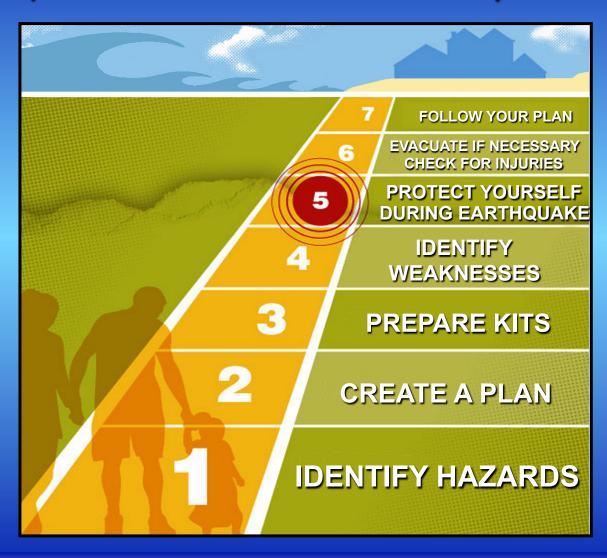
Making our North Coast Communities
Tsunami Resilient

Since 1855, on the North Coast . . .

31 Tsunamis Observed or Recorded

- 4 caused damage
- 4 local source tsunamis
- 22 distant source tsunamis
 - 8 tsunami alert bulletins since 1986

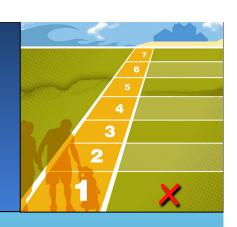
The Seven Steps to Earthquake and Tsunami Preparedness



Begin by talking about preparedness with your family, housemates and work associates

Step #1 Before the Quake

Identify Potential Earthquake Hazards



Identify items that may fall, topple or slide

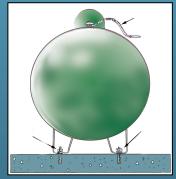




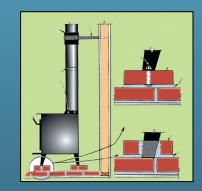


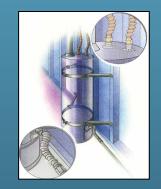


Secure potentially hazardous and valuable items











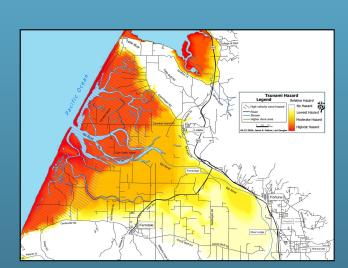
2007 Humboldt County Fair Display

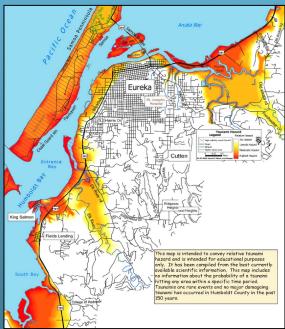
Step #1 Before the Quake

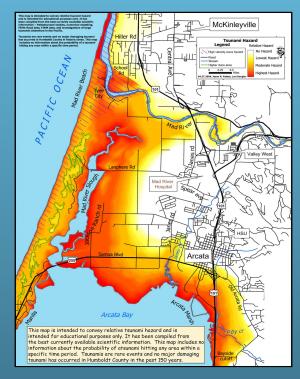
Identify Potential Tsunami Hazards



Know your risk. Determine if you live, work, or play in a hazard zone.

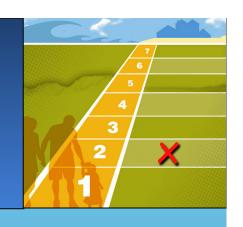






Step #2 Before the Quake

Create a Disaster Preparedness Plan





PLAN NOW...

To be safe during an earthquake Practice "DROP, COVER and HOLD"

To respond after an earthquake

Collect critical supplies and attend

training



To communicate after an earthquake
Choose a meeting place and an out-of-the-area
emergency contact to relay information

To recover after an earthquake Consider buying earthquake and/or flood insurance

Step #2 Before the Quake

Include Tsunamis in Your Disaster Preparedness Plan



PLAN NOW...

To be safe during a tsunami.

Know if you live/work in a tsunami hazard zone

Know the natural and official tsunami warnings

Natural Warnings — Strong ground shaking, a sudden change in sea level, ocean withdrawal, or a loud roar from the ocean are all Nature's warning that a tsunami may be approaching

Official Warnings — You may be notified of a Tsunami Warning by TV and radio stations, door-to-door contact by law enforcement, on NOAA weather radios, or tsunami sirens

Plan on what actions you will take if:
on the beach? at home? at work?



Step #3 Before the Quake

Prepare Disaster Kits



Disaster Kits

Create PERSONAL, HOWE, WORK, and CAR disaster kits

— prepare to be isolated for at least a week

Essential items to have with you all the time

water, food, flashlight, medications, radio

Store kits in easy-to-carry, sturdy containers

— backpack, duffle bag, covered trash container

If you live/work in a tsunami zone:

- Know the closest evacuation route
- Keep a backpack with a disaster kit by your door to grab as you evacuate
- Have a NOAA Weather Radio with a self-alert feature at home and at work

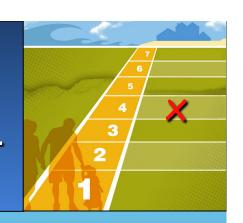






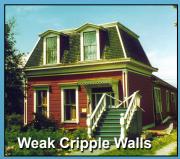
Step #4 Before the Quake

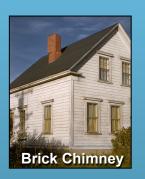
Identify Weaknesses and Begin to Fix Them — Earthquakes



Does your building have any weaknesses?



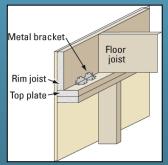


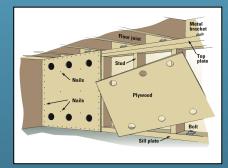




Begin to fix them.



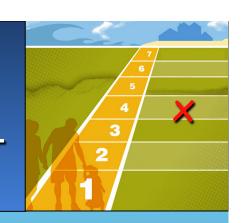






Step #4 Before the Quake

Identify Weaknesses and Begin to Fix Them — Tsunamis







Do you know how to evacuate to

safe areas?



C

Are evacuation maps available?

C

Have evacuation signs been

posted?

C

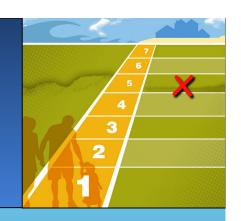
Is your community designated

"TsunamiReady"?

Contact your local government officials and find out what planning is being done in your community.

Step #5 During the Quake

Protect Yourself During Earthquake Shaking



If you are indoors

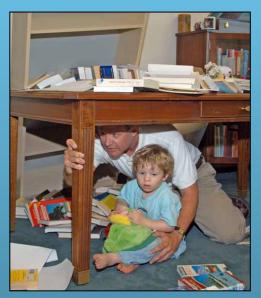
- DROP to the floor
- Take COVER under a sturdy desk or table
- HOLD on to the desk or table leg until the ground stops shaking

If you are outdoors

' Get into the open — away from buildings, power lines and trees

If you are driving

- Stop as soon as it is safe to do so
- Stay inside your car
- Stay away from bridges, overpasses and tunnels
- Move your car as far out of traffic as possible



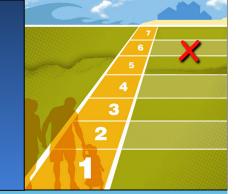
DROP, COVER, and HOLD

If you are in a crowded area, take cover and stay where you are.

STAY CALM and encourage others to do the same.

Step #6 After the Quake

Evacuate M Only if Necessary



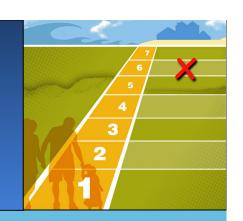
- If you are at the beach, move to higher ground immediately no matter how small the earthquake
- If you are in a tsunami hazard zone and the earthquake is very strong, immediately gather your family members, grab your tsunami disaster kit, and WALK to a safe area
- C Go on foot
- If evacuation is impossible, go to the upper floor of a sturdy building or climb a tree
- Stay away from the coast until you hear an official announcement that no tsunami is coming

If you are NOT in a hazard zone STAY WHERE YOU ARE.

You are not at risk of a tsunami.

Step #6 After the Quake

Check for Injuries and Damage M Only if you are NOT in a tsunami hazard zone



Check for injuries

Check yourself first before helping others; protect your face from dust.

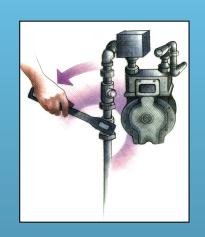
Check for damage causing hazardous situations
Fires, gas leaks, damaged electrical wiring, downed utility lines,
fallen and broken objects, and spills.

If your home is seriously damaged

You need to evacuate. Tell a neighbor or your contact person where you are going. Find out what you should bring with you beforehand.

If your home appears undamaged

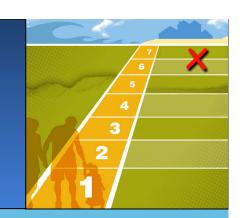
Stay in your home even if the power is out and some items have been damaged. Shelters may be overcrowded and initially lack many services.



Turn off gas only if you suspect a leak. Only your utility company can turn the gas back on.

Step #7 After the Quake

Follow Your Disaster Preparedness Plan March Earthquakes



Safety first

Never use matches or candles, camp stoves, or anything that produces sparks indoors

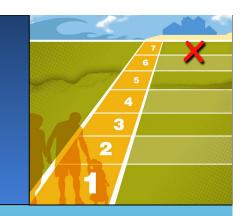
- Be in communication
 - Use your radio for information and advisories
 - If you have phone service, make ONE call to your outof-the-area contact — ask them to contact other friends and relatives
 - STAY OFF THE PHONE
- Check your neighbors
- Check your food and water supplies

 EXPECT AFTERSHOCKS

 Some may be large enough to do additional damage.

Step #7 After the Quake

Follow Your Disaster Preparedness Plan March Tsunamis



C	The first surge or wave is almost never the
	largest

- Successive waves may be spaced 10 or more minutes to an hour apart

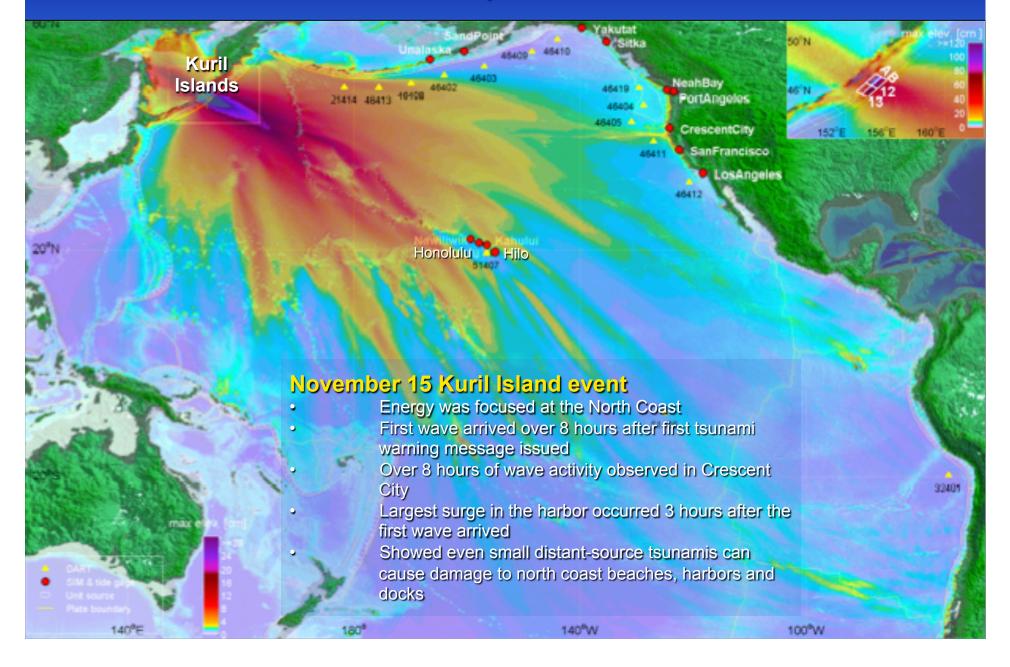
 Danger may last 8 hours or longer
- Listen to your NOAA Weather Radio for advisories and instructions
- Never go to the coast to watch for a tsunami Tsunamis move much faster than you can run. Driving to the coast hampers evacuation.

If you evacuate — Stay away from low-lying costal areas until an official allows you to re-enter the area.



Sightseers waiting for the 1960 tsunami in Hilo, Hawaii. Many of these people did not survive the surge.

November 15, 2006 Tsunami

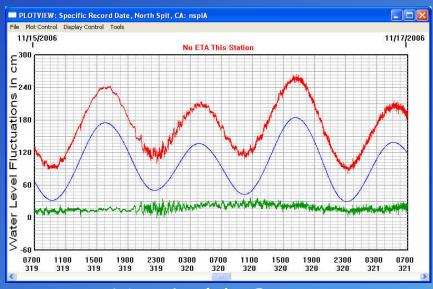


\$9.2 Million in Losses to the Crescent City Small Boat Basin

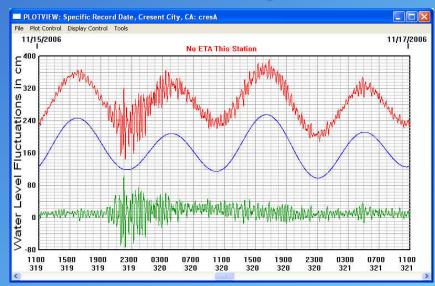


Lessons Learned from the November 15, 2006 Tsunami

- Tsunamis can cause damage even if nothing is flooded
- On our coast, the first wave is not the largest
 On November 15 the largest surge was the 6th wave and
 arrived almost 3 hours after the first wave
- Tsunami waves can continue to arrive for many hours



Humboldt Bay



Crescent City

You may find out that a TSUNAMI is coming in two ways:

Natural Warning



For a large, nearby earthquake or submarine landslide, there will be no time to issue an official warning.

If you:

FEEL strong ground shaking
SEE sudden change in sea level or ocean withdrawal
HEAR a loud roar from the ocean
immediately move to higher ground or inland

Stay away from low coastal areas until told by an official source that the danger has passed.

Official Warning



You may be notified that a Tsunami Warning has been issued by:

TV and radio stations, door-to-door contact by law enforcement, on NOAA weather radios, or in some cases by outdoor siren.

Move away from the beach and seek more information without using a phone — tune into a local radio or television station for more information. Follow the directions of local authorities which may include evacuating low lying coastal areas.