

## CONTACTS

**Oregon Emergency Management**  
3225 State Street  
P.O. Box 14370  
Salem, OR 97309-5062  
<http://egov.oregon.gov/OOHS/OEM/>

**Clatsop County Emergency Services**  
P.O. Box 658  
Astoria, OR 97103  
(503) 338-3600 ext. 2425  
or (503) 325-8635  
<http://www.co.clatsop.or.us>

**City of Warrenton**  
225 S. Main/P.O. Box 250  
(503) 861-2233  
Warrenton, OR 97146-0250  
<http://www.ci.warrenton.or.us>

**Oregon Department of Geology  
and Mineral Industries**  
800 NE Oregon Street #28, Suite 965  
Portland, OR 97232  
(971) 673-1555  
<http://www.oregongeology.com>

**Nature of the Northwest Information Center**  
800 NE Oregon Street #5, Suite 177  
Portland, OR 97232  
(503) 872-2750  
<http://www.naturenw.org>

**International Tsunami Information Centre**  
Box 50027  
Honolulu, HI 96850-4993  
(808) 541-1658  
<http://www.tsunamiwave.info/>



# TSUNAMI Evacuation Map



## Warrenton

### IF YOU FEEL AN EARTHQUAKE:

- **DROP, COVER, HOLD** until the earthquake is over, protect yourself
- **MOVE IMMEDIATELY INLAND** to high ground and away from low-lying coastal areas
- **GO ON FOOT** if at all possible
- **DO NOT WAIT** for an official warning
- **DO NOT PACK** or delay
- **DO NOT RETURN** to the beach
- **WAIT** for an "all clear" from local emergency officials before returning to low-lying areas

A TSUNAMI MAY BE COMING  
IN A FEW MINUTES. LARGE  
WAVES MAY CONTINUE TO COME  
ONSHORE FOR SEVERAL HOURS.

# Tsunami Evacuation Map: Warrenton



The information in this brochure could save your life.  
Please read it and share it with your family and friends.

## What to know and what to do about Tsunamis

A tsunami is a series of sea waves, usually caused by a displacement of the ocean floor by an undersea earthquake. As tsunamis enter shallow water near land, they increase in height and can cause great loss of life and property damage.

Recent research suggests that tsunamis have struck the Oregon Coast on a regular basis. They can occur any time, day or night. Typical wave heights from tsunamis occurring in the Pacific Ocean, over the last 80 years, have been 20-45 feet at the shoreline. However, because of local conditions a few waves have been much higher—as much as 100 feet or more.

We distinguish between a tsunami caused by an undersea earthquake **near** the Oregon coast (LOCAL TSUNAMI) and an undersea earthquake **far away** from the coast (DISTANT TSUNAMI).

A **LOCAL TSUNAMI** can come onshore within 25 to 35 minutes after the earthquake—before there is time for an official warning from the national warning system. **Ground-shaking from the earthquake may be the only warning you have. Evacuate quickly!**

A **DISTANT TSUNAMI** will take four hours or more to come onshore. You will feel no earthquake, and the tsunami will generally be smaller than that from a local earthquake. Typically there is time for an official warning and evacuation to safety.

Evacuation for a distant tsunami will generally be indicated by a **STEADY 3-MINUTE SIREN BLAST and an announcement over NOAA weather radio** that the local area has been put into an official TSUNAMI WARNING. In isolated areas along beaches and bays you may not hear a warning. Here, **A SUDDEN CHANGE OF SEA LEVEL** should prompt you to move immediately inland to high ground. If you hear the 3-minute blast or see a sudden sea level change, first evacuate away from shoreline areas, then turn on your local broadcast media or NOAA weather radio for further information.

### FOR BOTH LOCAL AND DISTANT TSUNAMIS:

1. **Evacuate on foot**, if at all possible. Follow evacuation route signs and arrows.
2. **If you need help evacuating, tie something WHITE** (sheet or towel) to the front door knob. Make it large enough to be visible from the street. If the emergency is a distant tsunami, then help may arrive. In the event of a local tsunami, it is unlikely that anyone will help you, so make a plan and be prepared!
3. **Stay away from potentially hazardous areas until you receive an ALL CLEAR** from local officials. Tsunamis often follow river channels and dangerous waves can persist for several hours. Local officials must inspect all flooded or earthquake-damaged structures before anyone can go back into them.
4. **After evacuation**, check with local emergency officials if you think that you have special skills and can help, or if you need assistance with locating lost family members.

### Be prepared! Assemble emergency kits with at least a 3-day supply for each family member.

1. First aid kit and reference guide.
2. Water—1 gallon per person per day; for drinking, hygiene, and cooking.
3. Food (packaged, canned, no-cook, as well as baby food and food for special diets).
4. Can opener (non-electric).
5. Blankets or sleeping bags.
6. Fire extinguisher (standard).
7. Essential medications.
8. Money.
9. Food and water for pets.
10. Portable radio, NOAA weather radio, flashlights, and batteries.
11. Alternate cooking source & matches.
12. Heavy gloves and sturdy shoes.
13. Crescent wrench for utility shut off (12" or longer).

**If you feel the ground shake, move quickly to higher ground and safety! Do not wait for an official warning!**



**NOTICE**

The evacuation zone on this map was developed by the Oregon Department of Geology and Mineral Industries in consultation with local officials. It is intended to represent a worst-case scenario for a tsunami caused by an undersea earthquake near the Oregon coast. Evacuation routes were developed by local officials and reviewed by the Oregon Department of Emergency Management.

The City of Warrenton is publishing this brochure because the information furthers the mission of the Department. The map is intended for emergency response and should not be used for site-specific planning.

**Tsunami Evacuation Map: Warrenton**

**MAP SYMBOLS**

- Evacuate from this Area
- Outside Hazard Area
- Evacuation Route
- Assembly Area
- City Hall, Police & Fire Dept.
- Fire Station
- School
- Bridge

