

# Tsunami

Clatsop County residents and guests are at risk of being impacted by tsunamis, a series of waves usually caused by an undersea earthquake.

As these waves enter shallow water near land, they increase in height and can cause great loss of life and property damage.

The first wave is often **not** the largest. Additional waves may be spaced many minutes apart and can continue arriving for several hours.

Tsunamis may be caused by an earthquake near shore, such as one generated at the [Cascadia fault line](#), or they may be created by a quake hundreds or thousands of miles away.

**NEVER go to the coast to watch a tsunami**

**Tsunamis move faster than a person can run.**

- Go to an area **50 feet above sea level**, if possible.
- If you are in a multi-story building and don't have time to travel to high ground, go to an upper level of the home or building.
- If you are on the beach and cannot get to high ground, go inland as far as you can.
- Go on foot if possible, particularly if an earthquake has caused damage to roads, power lines, and resulted in significant debris.

Do **NOT** return to shore after the first wave – tsunamis usually occur as a series of many waves. Wait until the official tsunami warning or alert has been lifted.

**It Matters Where You Are When a Tsunami Strikes**

## Near the Shore

In the case of a near-shore earthquake, the first wave comes quickly. **It will reach the coast in 15 to 20 minutes.** That means you have to **get to high ground immediately once the**

**quake ends.** Do not wait for a siren or other official warning.

## Distant or Far Away Earthquakes

A tsunami generated by a distant earthquake may take several hours to reach the Oregon Coast. Emergency officials will provide warnings through local radio broadcasts. Some local communities also have their own public warning systems. **If you hear a solid three-minute siren blast, that's the signal to evacuate.** Distant tsunamis are generally smaller than those generated nearer to shore, but can still cause considerable damage

## Signs of a Tsunami

A sign that a tsunami is coming often is a sudden change in the sea level. If you are at the beach and see the sea level suddenly rise or fall, quickly get to higher ground.

### Evacuation Signs and What They Mean

### Tsunami Evacuation Routes

Tsunami Evacuation Route Maps show tsunami inundation zones, evacuation routes and gathering points for communities in Clatsop County.

These maps are based on the latest scientific data, identifying areas at risk of inundation from a projected worst-case local, Cascadia zone tsunami, and a worst-case distant generated tsunami.

The maps show generalized evacuation routes. The needed tsunami evacuation speeds shown on the maps listed below represent the speeds required to escape a maximum considered tsunami generated from a local Cascadia subduction zone earthquake.

Clatsop County Evacuation Routes (from north to south) are available for these areas:

- [Hammond](#)
- [Astoria Central](#)
- [Astoria East](#)
- [Astoria West](#)
- [Fort Stevens State Park](#)
- [Warrenton North](#)
- [Warrenton East](#)
- [Warrenton South](#)
- [Jeffers Garden](#)
- [Gearhart North](#)

- [Gearhart South](#)
- [Seaside North](#)
- [Seaside South](#)
- [Cannon Beach North](#)
- [Cannon Beach South](#)
- [Arch Cape](#)
- [Arch Cape / Falcon Cove](#) (2013 map)

## Tsunami Assembly Areas

Assembly areas are locations established by DOGAMI (The Oregon Department of Geology and Mineral Industries) where evacuees can assemble after a Tsunami event. These are ***only*** used for Tsunamis.

Below are listings of planned Assembly Areas by city.

### Arch Cape Assembly Areas

Location Name/Area	Address	Cross Street	Cross Street
Walsh Ln	Walsh Ln & Raven Hill Rd	Walsh Ln	Raven Hill Rd
Saint Peter the Fisherman Church	Upland Ln & Hwy 101	Upland Ln	Hwy 101
Buena Vista Dr	Top of Buena Vista Dr hill	Buena Vista Dr	
Shannon Ln	Top of Shannon Ln hill	Shannon Ln	
Ray Brown Rd & Columbia St	Ray Brown Rd & Columbia St	Ray Brown Rd	Columbia St
Ray Brown Rd & Cove Beach Rd	Ray Brown Rd & Cove Beach Rd	Ray Brown Rd	Cove Beach Rd
Ray Brown Rd	Ray Brown Rd & Clatsop Ln	Ray Brown Rd	Clatsop Ln

### Astoria Assembly Areas

Location Name/Area	Address	Cross Street	Cross Street
Clatsop County Fair Grounds	Clatsop County Fairgrounds	Walluski Lp	
Oregon Dept of Forestry	Oregon Dept of Forestry	Hwy 202	Walluski Lp
Western Oregon Waste	Recology garbage dump	Williamsport Rd	
Astoria Middle School	Astoria Middle School	Klaskanine Ave	
Skate Park	Tapiola skate park	Denver St	Florence Ave
Fred Lindstrom Memorial Park	Fred Lindstrom Memorial Park	Niagra Ave	6th St
Clatsop Community College	Clatsop Community College	Lexington Ave	16th St
Astor Elementary School	Astor elementary school	Franklin Ave	35th St
Alderbrook Park	Alderbrook Park	Leif Erickson Dr	45th St
Tongue Point parking	Tongue Point parking S. bridge	Tongue Point Rd	
Hwy 101 & Liberty Ln	Hwy 30 & Liberty Ln	Hwy 30	Liberty Ln
Lewis & Clark Elementary	Lewis & Clark Elementary	Lewis & Clark School Rd	

#### Cannon Beach Assembly Areas

Location Name/Area	Address	Cross Street	Cross Street
8th Street/Ecola Park Rd	8th Street & Ecola Park Rd	8th Street	Ecola Park Rd
6th St/Old Cannon Beach Rd	6th St & Old Cannon Beach Rd	6th St	Old Cannon Beach Rd
E Sunset Blvd	E Sunset Blvd & Seascape Dr	E Sunset Blvd	Seascape Dr
Spruce Ln/Arbor Ln	Spruce St & Arbor Ln	Spruce St	Arbor Ln
E Chinook Ave	S end of E Chinook Ave	E Chinook Ave	
Tolovana Mainline	Tolovana Mainline & Hwy 101	Tolovana Mainline	Hwy 101
Surfcrest Ave	Top of E Surfcrest Ave hill	E Surfcrest Ave	
Yukon St	Yukon St & Vista Del Mar Dr	Yukon St	Vista Del Mar Dr
Hwy 101	Via E Hills Ln trail	Hwy 101	E Hills Ln Trail

Gearhart& Seaside Assembly Areas

Location Name/Area	Address	Cross Street	Cross Street
Gearhart Ave	N Marion Ave & Sea Breeze Blvd	N Marion Ave	Sea Breeze Blvd
Pine Ridge Dr/Shamrock Rd	Pine Ridge Dr & Shamrock Rd	Pine Ridge Dr	Shamrock Rd
Water tank	Via trail/road off Salminen Ln	Salminen Ln	
Sheridan Dr	Reserve at Gearhart park	Sheridan Dr	Browning Ln
Summit Ave	N end of Summit Ave	Summit Ave	
Royal View Dr	Near water tank	Royal View Dr	
Broadway St/Hilltop Dr	Broadway St & Hilltop Dr	Broadway St	Hilltop Dr
Ecola State Park	Top of Sunset Blvd hill	Sunset Blvd	
Huckleberry Dr & Cooper St	E end of Huckleberry Dr	Huckleberry Dr	Cooper St
Skyline Dr	Skyline Dr & Elkridge Ct	Skyline Dr	Elkridge Ct
Thompson Falls Dr	S end of Thompson Falls	Thompson Falls Dr	
Middle Fork Rd	E end of Middle Fork Cir	Middle Fork Circle	
North Fork Rd	North Fork Rd & North Fork Ct	North Fork Rd	North Fork Ct

Sunset Beach & Del Rey Beach Assembly Areas

Location Name/Area	Address	Cross Street	Cross Street
West Anderson Rd	West Anderson Rd & Dellmoor Lp	West Anderson Rd	Dellmoor Lp
Sunset Beach Ln & Par Rd	Sunset Beach Ln & Par Rd	Sunset Beach Ln	Par Rd
Ivyloo Acres Ln	W end of Ivyloo Acres Ln	Ivyloo Acres Ln	
Rilea Pacific Rd	First left in Camp Rilea	Pacific Rd	Camp Rilea

**Warrenton Assembly Areas**

Location Name/Area	Address	Cross Street	Cross Street
NW Peter Iredale Rd/Ridge Rd	NW Peter Iredale Rd & Ridge Rd	NW Peter Iredale Rd	Ridge Rd
Cemetery	Oceanview Cemetery	SW 18th St	Oceanview Cemetery
SW Juniper Ave	Hill on SW Juniper Ave	SW Juniper Ave	
Soccer Field East	Soccer field east	NW Ridge Rd	Camp Kiwanilong Rd
Soccer Field West	Soccer field west	NW Ridge Rd	Camp Kiwanilong Rd
Jetty Rd & Ridge Rd	Jetty Rd & Ridge Rd	Jetty Rd	Ridge Rd
Russell Drive	Ft Stevens National Cemetery	Russell Drive	
Ensign Ln/SE 19th St	Ensign Ln & SE 19th St	Ensign Ln	SE 19th St
Fort Clatsop Parking Area	Parking area at Ft. Clatsop	Fort Clatsop Rd	

**Youngs River Valley Assembly Areas**

Location Name/Area	Address	Cross Street	Cross Street
Fort Clatsop Parking Area	Parking area at Ft. Clatsop	Fort Clatsop Rd	
Mudd Ln	N end of Mudd Ln	Mudd Ln	
Seppa Ln	Lewis & Clark Bible Church	Seppa Ln	Lewis & Clark Rd
Fire Station	Lewis & Clark fire station	Logan Rd	M and M Rd
Lewis & Clark Elementary	Lewis & Clark elementary	Lewis & Clark School Rd	

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#### Resources

- [Ready Emergency Supply List](#)
- ["Beat the Wave" Tsunami Evacuation Map - SEASIDE, OREGON - SOUTH](#)
- ["Beat the Wave" Tsunami Evacuation Map - SEASIDE, OREGON - NORTH](#)
- [Tsunami Evacuation Analysis of Astoria and Nearby Unincorporated Communities, Clatsop County, Oregon](#)
- [Tsunami Evacuation Analysis of Cannon Beach, Arch Cape, and Falcon Cove, Clatsop County, Oregon](#)

#### Public Service Announcements

- [Tsunami 101](#)
- [Kids Tsunami Preparedness Video Contest Winner](#)
- [Japan Earthquake/Tsunami PSA](#)
- [CG Simulation of Tsunami Aims to Spur Awareness](#)

#### Websites

- [What is a Tsunami?](#)
- [Ready.gov Tsunami](#)
- [Tsunami Preparedness](#)
- [Tsunami Facts & Information](#)

#### Articles

- ["The 10 Most Destructive tsunamis in history"](#)
- ["The Great Tsunami of 1964"](#)
- ["The new 'How-To' for tsunami-safe buildings: 'We're trying to save Lives'"](#)
- ["Japan then and Now"](#)

- **"Ten Years Since the 2004 Indian Ocean Tsunami"**
- **"Story map: NOAA Mitigation the impact of killer waves"**