

SEASIDE TSUNAMI EVACUATION MAP

1 If you feel an earthquake

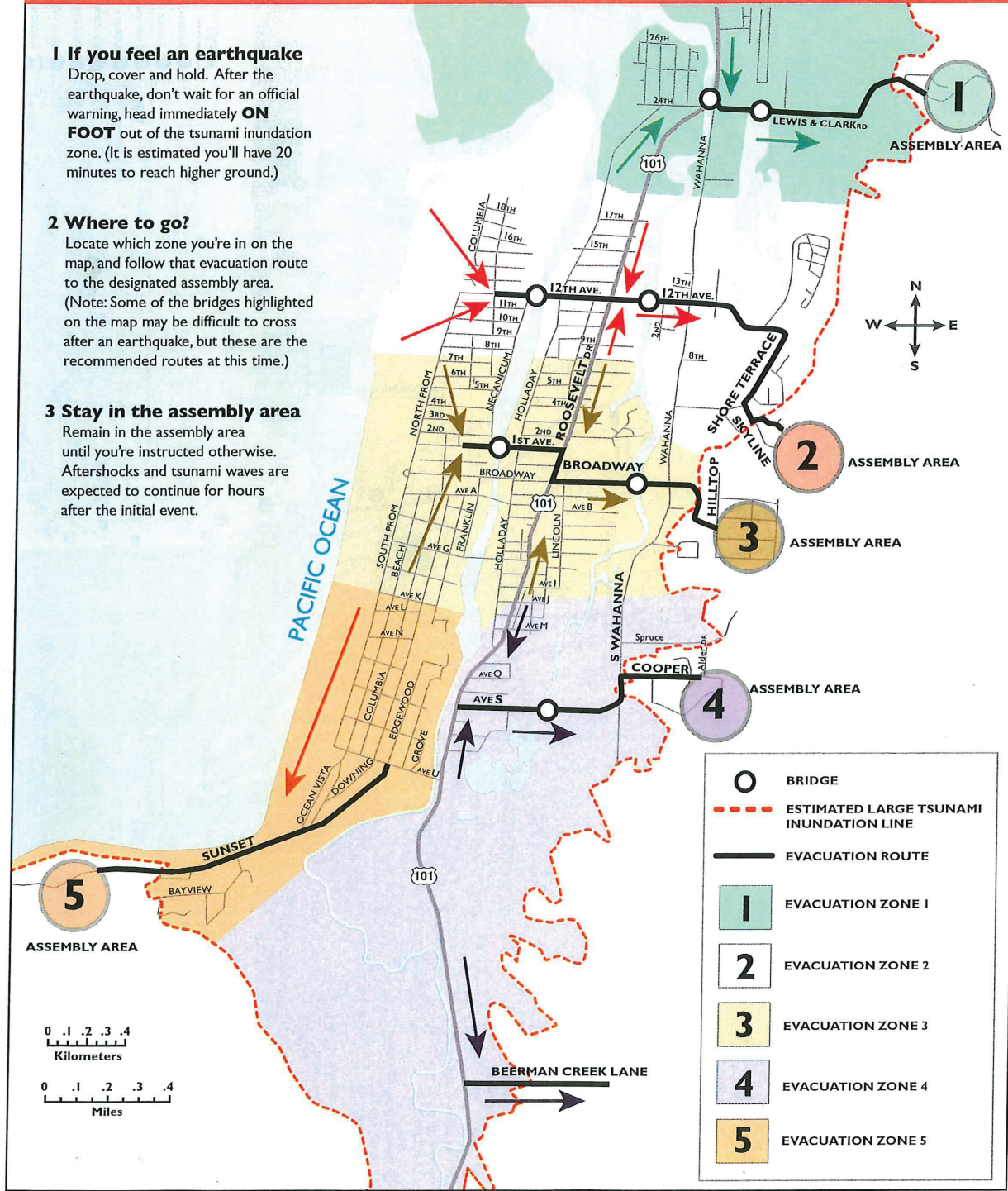
Drop, cover and hold. After the earthquake, don't wait for an official warning, head immediately **ON FOOT** out of the tsunami inundation zone. (It is estimated you'll have 20 minutes to reach higher ground.)

2 Where to go?

Locate which zone you're in on the map, and follow that evacuation route to the designated assembly area. (Note: Some of the bridges highlighted on the map may be difficult to cross after an earthquake, but these are the recommended routes at this time.)

3 Stay in the assembly area

Remain in the assembly area until you're instructed otherwise. Aftershocks and tsunami waves are expected to continue for hours after the initial event.



Tsunami: No warning signs before the big one hits

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servancy and serves on the Seaside City Council.

"Here in the Pacific Northwest, we have this general geologic circumstance offshore, the mid-ocean ridge, which is locally the Juan de Fuca Ridge," Horning said.

Seaside is rising at about a millimeter-and-a-half per year since the last earthquake in January 1700. "As it gets to a certain point, it overwhelms the internal strength of the rock and it breaks loose and generates this large earthquake," Horning said.

When enough strain builds, water will flood Seaside during a Cascadia earthquake and tsunami. Within 30 minutes, the wave will reach U.S. Highway 101. In 34 minutes floods advance to the hills, with water as deep as 80 feet in places.

The practice disaster scenario Cascadia Rising predicted 350 people would die in the earthquake and there would be 4,500 drownings — 4,000 in Seaside.

In a large tsunami, about 90% to 95% of the buildings would be destroyed, incurring losses of about \$1.28 billion for Seaside, \$361 million for Gearhart. Seaside will have 330,000 tons of debris and Gearhart 84,000 tons of debris.

The most recent Cascadia Subduction Zone event,

an estimated magnitude 9.0 earthquake and tsunami, was on Jan. 27, 1700, 322 years ago.

"The cluster we're in has been averaging 330 years between earthquakes, meaning that, according to the numbers, we could be due for a seismic event very soon," Horning said.

The big one

There won't be warning sirens before the big one hits.

"If you can't stand during the earthquake and it lasts more than 30 seconds, that should be your cue to evacuate," he said.

In a magnitude 9 earthquake, expect objects to "move from here, over to here and back in about two seconds," for at least three minutes. This will be followed by another two minutes of minor shaking.

"What's going on when that happens for five minutes is that it unzips from near Cape Mendocino and ruptures all the way up to the north end of Vancouver Island," he said. "It's like a speeding train going by, and you get the shaking from it as it's approaching, and you get shaking from it as it's leaving you — and it's particularly shaking when it's going on right underneath you."

During the initial quake, drop, cover and hold on before heading inland on foot. Take action to get to safe ground as soon

as possible.

Cell phones and electronic devices will be useless with power down — the only mode of communication will be ham radio.

Don't get in your car, Horning said, as it will likely be stopped by impacts from the earthquake. "You can't get more than a block down the street before the traffic jams get you," he said. "All it takes is one person to abandon their vehicle. And that's it."

To increase survival chances, be prepared, he said. "Know your evacuation routes and practice them. If you shop at Safeway, practice your evacuation from Safeway."

Have a bicycle or e-bike to help you reach a higher destination safely, he said. On foot, do not slow down until you are out of the tsunami zone.

Horning advises having a grab-and-go bag with a tent, food, cookware, toiletries and medicine. "I've got food, camping supplies, protection from the weather, medicines, enough to camp out for two weeks independently, like a Boy Scout," he said, all in a 65-pound pack.

His wife has one, too.

Saving lives

Safer, earthquake-proof bridges could save hundreds or even thousands of lives, Horning said, to enable evacuation to

higher ground. The city needs about seven bridges at between \$5 million to \$7 million apiece — an estimated cost of \$42 million. Funding could come through sales tax, road levies, room tax or other mechanisms — but even if the funding were available, completion would take between 10 to 15 years.

"How urgent is this?" Horning asked. "Are you willing to pay taxes? Are you willing to call your senator or your legislators? We have to figure out a way to fund this. Remember, as I said at the beginning, if nothing else, remember to evacuate on foot and travel as fast as possible."

The event was presented by the city's community emergency response team.

We can do a lot about saving the lives of Seaside, he said. "Having the community emergency response team, reach out, educate and help prepare and to help guide when there's an emergency is one of the things that we can do."

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Work hours: New rules won't apply to homeowners working on their properties

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Calling the current noise ordinance more restrictive than other communities "but workable," Mancill asked councilors to reject the ordinance.

A 2014 update to the code limited contractors' daily hours of operation, but fell short of limiting weekend work. The code allows construction and landscape work between 8 a.m. and 6 p.m. Landscaping is permitted from 7 a.m. to 7 p.m.

one day only: Sunday."

Having some time to enjoy the community while carefully growing the community is a balancing act, resident Rob Murphy said. "But I would support the fact that there is time where we can enjoy the community during this growth spurt that the community's experiencing."

Mayor Paulina Cockrum and councilors Reita Fackerell and Brent Warren voted for the ordinance. Dan Jesse voted against; Kerry Smith recused himself.

'THE INITIAL REQUEST WAS FOR SATURDAY, SUNDAYS AND HOLIDAYS, SO THIS IS A SIGNIFICANTLY SCALED BACK REQUEST. SO IT IS A GOOD COMPROMISE. I KNOW NOBODY IS REALLY SUPER HAPPY WITH IT, BUT IT IS A COMPROMISE AND THAT'S WHAT SOCIETY IS ABOUT — FINDING REASONABLE COMPROMISE.'

Brent Warren, councilor who voted for the ordinance

The new rules won't apply to homeowners working on their properties. Other exemptions come for city repairs, Gearhart golf course maintenance and emergency repairs like roof or major storm damage. In the case of non-emergencies, the city administrator may issue a permit for five working days. The permit may be revoked if complaints arise by working outside of the permit parameters.

Police will have enforcement responsibility, with fines of up to \$500 for each violation. Each day a violation occurs or continues constitutes a separate offense.

Overall public comment at last Tuesday's special City Council meeting showed support for the new rule. "I believe that every citizen of Gearhart is entitled to have at least one day off a week to enjoy quiet, family and friends," Sheila Nolan said. "The proposed ordinance is for one day,

"The initial request was for Saturday, Sundays and holidays, so this is a significantly scaled back request," Warren said. "So it is a good compromise. I know nobody is really super happy with it, but it is a compromise and that's what society is about — finding reasonable compromise."

Mancill plans to pursue a court challenge to the new ordinance. He said the issue was driven by about 20 homeowners, most of whom don't live in Gearhart full time. Contractors were never notified of the meetings, he said, even though they had Gearhart business licenses.

He believes the process wasn't transparent, and may have violated state laws. "We're not going to just lay down and crawl over," Mancill said after the meeting.



2022 Medicare ????'s

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 10/22/2021 & 10/23/2021
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Gearhart

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 Saturday, October 23rd, 9am-5pm
 Sunday, October 24th, 10am-3pm

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Gearhart

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 Vacancy Notice
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