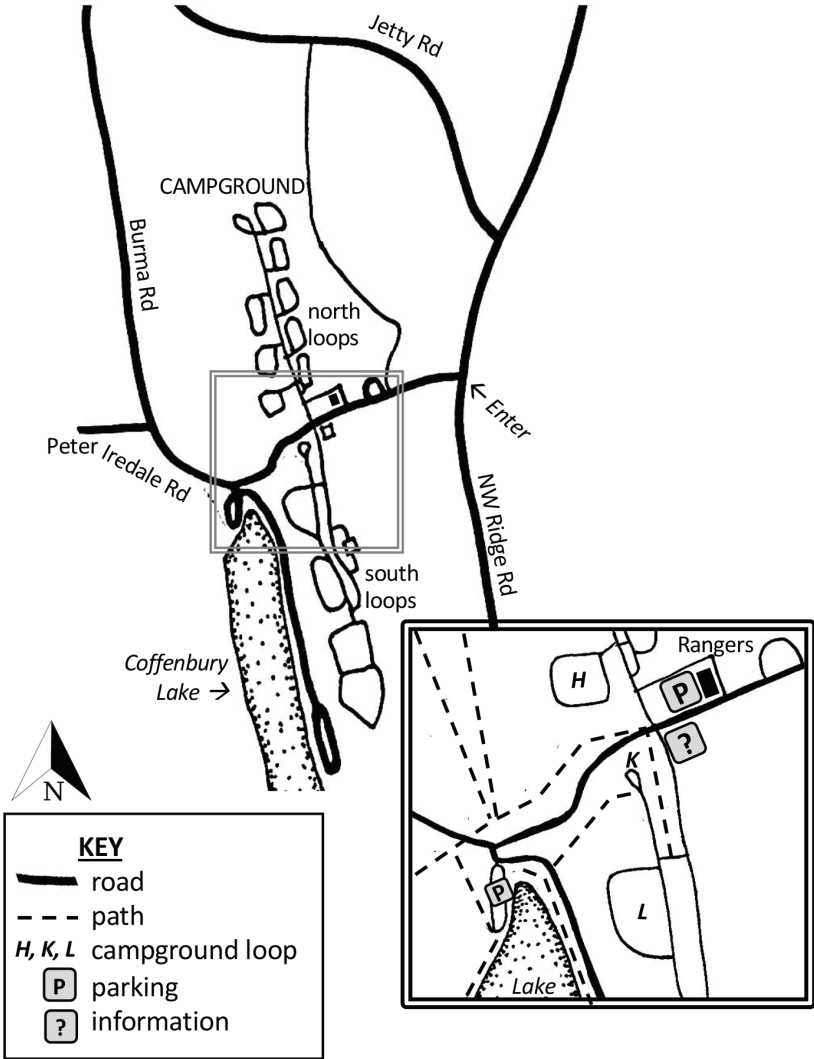


Fort Stevens Tsunami Quest

Use this map to help you solve the following Quest!

Fort Stevens State Park – Campground Area



Quest Partners

Fort Stevens State Park
 Oregon Department of Geology and Mineral Industries (DOGAMI)
 Oregon Sea Grant

Fort Stevens Tsunami Quest

Established: April 2018 by Interpretive Rangers Dane Osis and Chad McHugh
Box Monitors: Fort Stevens Rangers



Discover the natural, cultural, and historical “treasures” of Fort Stevens. Suitable for groups of all ages, this self-guided Quest allows life-long learners to explore parks, trails, and other outdoor spaces in new ways and at their own pace. Pick up a Fort Stevens Quest Packet at the Ranger Station or Visitor Center.



DRIVING DIRECTIONS

From south: Head north on Hwy 101 toward Warrenton. Turn left onto Route 104N, and in 0.3 mile turn left again onto Columbia Beach Lane/Ridge Road. Follow for four miles. At the KOA Campground intersection, turn left onto Peter Iredale Road, which will take you into Fort Stevens State Park. Park in the lot on the right, near the Ranger Station. If you are visiting in the busy season, obtain a Quest Parking Pass inside the Ranger Station. The pass will allow you to be in the “overflow parking” for up to two hours.

Welcome to Fort Stevens State Park! To do this Quest, you will have to follow clues to get letters, which you will fill in on page 31. Use them to spell out the location of the hidden Quest box at the end. The Quest will take you through the campground, lake, and trails in Fort Stevens. Through the route, you will learn where high ground is located and why knowing this information would be helpful in the event of an earthquake and tsunami. The route is approximately one mile in length along a paved and natural-surface trail, and it takes about an hour to complete. Start at the Information Booth near the four-way stop sign in the campground.

Let's begin!

A tsunami is a large wave caused by disturbance in the ocean. An underwater earthquake can set a tsunami in motion.

If the ground starts to shake, that's your clue to know to get up to high ground; QUICKLY—not slow!

At the four-way intersection, what signs do you see? They tell you where to go to escape a tsunami.

The blue and white signs point you east toward high ground. The aptly named "Ridge Road" is where elevation can be found.

Today on this Quest we won't go that direction. Instead, we'll look for other spots that could provide protection.

Local vs. Distant Tsunamis

Local tsunami: A big earthquake that occurs right off the Oregon coast would produce a tsunami that would reach land in minutes and flood low-lying areas. Local tsunamis strike every 300 to 500 years. The last local tsunami in Oregon occurred on January 27, 1700. An earthquake is the warning for a local tsunami, and it's important to get to high ground immediately.

Distant tsunami: In contrast, a distant tsunami is one that originates from a far-away source, generally more than 1,000 km away, or more than three hours' tsunami travel time from its source. A distant tsunami wave is much smaller, and there is ample time for park and emergency-management officials to let people know to get off the beach.

To begin this Quest,
go with your family or go alone.
Start out by looking west.
Go to the path near the four stones.

Walk south on the path,
then up ahead on your right
go across a foot bridge
that is just out of sight.

Did You Know?

A series of ridges of high ground can be found running north-south along the coast in this part of Clatsop County. These ridges and valleys are left over from when the area was sand dunes. There are many areas within the park that are out of the tsunami inundation zone. Let's find some of these high places!

Down the path, you will see K15.
Head to the right; a map will be seen.
Nice job, you found it! We hope you're having fun.
The first letter of the name of the bay goes in square #1.

When campers arrive here,
the first thing they should do
is orient themselves,
just like you!

Go between the trees and past the chain.
Do you feel the path start to rise?
To the end of this trail you will remain
and that's where high ground lies.

Up at the road, take a breath.
This road is sufficiently high.
It's out of the tsunami zone.
If you stopped here, you'd stay dry*
**Unless it's raining, of course!*

Look both ways;
it's OK to go slow.
Across the road
is the way you need to go.

Just across the road,
you will see a sign.
The first letter of the lake's name
goes in box #9.

Did You Know?

Coffenbury Lake gets its name from Clatsop County's first judge, George Coffenbury. He owned a dairy farm in this area, and is said to have had the finest vegetable gardens in all of Clatsop Plains. During WWII, a Japanese submarine fired on Fort Stevens. One of the shells is believed to have landed in Coffenbury Lake! Fortunately, the submarine missed its target and only made craters in the sand and wetlands around the area.

Let's continue on
and find more high ground.
But first that means
we'll have to walk on down.

Head down the trail
and go past the ferns.
When you get to the fork,
to the right you will turn.

You're in a lower spot now,
compared to where you just were.
Lower spots are where
lakes tend to occur.

Go along the lake's edge;
veer away from the street.
Look for a sign.
It's kind of discreet.

The double vowel on the brown sign
goes in the square
that has repeated digits.
Write the letter in there.

How do you spell "11"?
That's right, you did great!
Put the first letter of the word
in square #8.

Go toward the docks, where you will
see a life vest loaner station.
Wearing a life vest
helps with flotation.

If you borrow a vest,
make sure it's a good fit.
Then when you're done,
please return it.

The name of the Otter
is _FD
Put the missing letter
into square #3.

Today you don't need to run,
you don't have to be first.
Go to the fountain
where you can quench your thirst.

There's a hidden letter
on the fountain's rocks.
That letter goes
in the #12 box.

Head down the path
toward a sign that is white.
Continue on the bike path toward the
trail to the right.

Make sure you wear your helmet
when you ride your bike.
If you fall and hit your head,
it could save your life.

The first vowel of what you ride goes in
box #7.

Life jackets...helmets...
staying safe keeps things fun.
Being prepared can pay off
in the long run.

On the bottom of the CAUTION sign,
it says to slow down.
In square #4 is where
The last letter goes, don't frown.

Go down through the tunnel,
and watch out for bikers.
Sometimes they don't see
people who are hikers.

On one side of the tunnel
How many yellow lines do you see?
“M” goes in that number’s box
most perfectly.

Is the tunnel low ground, or high?
That’s right, we’re still quite low.
But high ground is ahead.
Up the hill we go!

Safety is important to you.
The first letter of it goes in box #2.

Go up the hill to a bench
and have a seat.
Here you can relax
and rest your feet.

Check the tsunami map.
Find your position.
Have you found high ground again?
Have you achieved your mission?

The green on the map is outside of the tsunami hazard area. Can you find your location on this map? Are you in a safe area, or not? Remember, getting to high ground during a tsunami is the most important thing, so try to figure out where the nearest high points might be when you are visiting an area in the tsunami zone.

If while sitting on this bench
you felt the earth shake and sway,
you could remain here at high ground
to stay out of the tsunami’s way.

In fact, after a quake,
once you’re at a safe height,
it’s important to STAY there
for hours (even overnight).

Did You Know?

After an initial tsunami wave reaches the shore, more big waves can follow for several hours. It can take 24 hours before it is safe to venture downhill again.

The middle initial for whom
the sturdy bench is named
is the letter that goes
in the #5 frame.

Look for this log
that came down on a whim.
The letter for box #10
is on the right, near a limb.

A tsunami can be quite a danger.
If you don’t believe me,
go ask a ranger.

If you are in a place
where evacuation signs are found,
pay attention to the arrows;
they lead to higher ground.

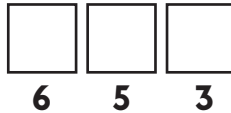
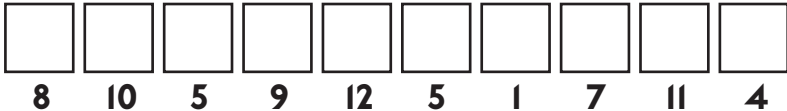
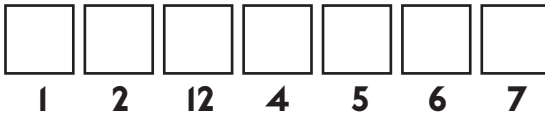
Go down the hill.
A crosswalk you will see.
You are almost done—yahoo, yippee!

Go through the crosswalk
to a sign facing the lot.
You are very close to the treasure you
have sought.

Look closely at the map,
your location it will show.
In case of a tsunami,
find all the places you could go.

Beneath the map, under a rock you will
find your buried treasure.
Sign your name, stamp your book.
It has been a pleasure!

If a tsunami were to occur,
would you know where
to go? Study the map
and find the nearest high
ground. Remember: after
an earthquake, roads may
be blocked or obstacles
may make evacuation more
difficult. Knowing where to
go could save your life!



Stamp page 244 of this book to record your find!

*For more information about tsunami safety on the coast, visit
www.oregontsunami.org*