

Columbia River
Maritime Museum
Tsunami Quest

Use this map to help you solve the following Quest!



Quest Partners

Columbia River Maritime Museum
Astoria Parks and Recreation

Columbia River Maritime Museum Tsunami Quest

Established: April 2018 by Kelly McKenzie and Oregon Coast Quests

Box Monitor: Kelly McKenzie, Field Educator at CRMM

INTRODUCTION

When the Oregon coast experiences a large earthquake, a tsunami could flood low-lying areas within minutes. Therefore, it is important for coastal visitors and residents to know what to do to stay safe. On this Quest, you will learn about tsunamis and the hazards they pose, practice an evacuation, and at the same time discover some historical landmarks in Astoria! This Quest takes place outdoors and will take about 45 minutes to complete, roundtrip.

Your Quest begins at the Barbey Maritime Center for Research Industry, which is a free-standing brick building at the east end of the Columbia River Maritime Museum parking lot. The street address is 2042 Marine Drive in Astoria.

Follow the directions and collect the clues to fill the numbered squares. At the end of your journey, the word you uncover will help you find the hidden Quest box. When you find the box, please sign the log book and let us know what you thought of this Quest. Stamp your page as proof of accomplishment, and then put the box back in its hiding place for the next person to find. Good luck!

If you feel an earthquake, **DROP, COVER and HOLD ON** to protect yourself. If you are in a tsunami inundation zone, evacuate immediately to **high ground**. Do not wait for an official warning.



The Barbey Maritime Center is where to begin your Quest. Walk across railroad tracks and then continue west.

Along the Riverwalk, an important map you'll see. This map shows where to go to escape a tsunami.

A tsunami is a series of ocean waves caused by a sudden large displacement of water. In this area, a tsunami could be generated by a big underwater earthquake, and the tsunami waves coming upriver would inundate (flood) low-lying areas.

If you feel the ground shake, it would be good for you to know whether you're in a low place. If you are, you'll need to GO!

Look at the colorful map and find where you are. GREEN areas represent land that is located safely above the highest tsunami inundation zone. What color is the map in the location where you are standing? Put the fifth letter of the color in the squares numbered "2."

That's right: if there was an earthquake, we would be much too low. A tsunami would soon be coming, so to HIGH GROUND we must go!

Look all around...can you see?
Where is the high ground to which you must flee?

That's right, to the south and up the hill we'll go.
And today, since it's practice, we can walk nice and slow.

Go to 17th Street and, at the crosswalk, cross Marine Drive and continue up the block.

Stop at the corner of 17th and _____.
Clue #5 is the second vowel in this street's name.

Did You Know?

There are two kinds of tsunamis that affect the Oregon coast. A distant tsunami is generated by an earthquake far away (like Japan or Alaska), the wave takes hours to arrive, and the wave is relatively small, covering the orange areas on the map. In contrast, a local tsunami is generated by an earthquake right offshore, and you would FEEL the ground shake. In a local event, the tsunami wave would arrive here (11 miles upriver) in 30 to 45 minutes, and the wave could cover the orange and yellow areas shown on the map.

Find the vessel Nicky.
What type of boat is she?
What was her job,
and in which fishery?

Write the fifth letter of this
type of boat in clue square
number 9.

Head west on Duane.
A museum stands tall.
Built in 1904, it was once
Astoria's City Hall.



At the corner, stop and look. On its sign you'll see
the first letter of the last word completes clue square #3.

Keep going up to 16th and Exchange.
Now you are out of a tsunami wave's range.

You're now at a place with sufficient elevation.
You're above the flooding zone. It's time for
celebration!

An Assembly Area lies ahead, at the top of 16th
street.
The college is a place for the community to meet.

Did You Know?

Patriot Hall at Clatsop
Community College
has been seismically
engineered to
withstand earthquakes.

But we'll turn west on Exchange, and in about one block an unusual colored line will cross the sidewalk. This line does not relate to tsunami safety. Instead it outlines where a settlement used to be. What color is the line?

The color's second letter goes in clue square 6. Now your phrase is looking better.

Ahead, find a hospital (though it's not that anymore). Put the last letter of its old first name in clue spaces labeled 4.

Continue on Exchange and soon you'll find a place that provides what is needed for your clue 1 space.

Explore this park. Read the signs. Get answers about strange green lines. Look for the box; the structure's the key. Under a green circle is where it will be.

Did You Know?

The Columbia River Maritime Museum was originally located where the Heritage Museum stands now.

Photo credit: Clatsop County Historical Society, Astoria, Oregon



Question for the Curious:

What historic settlement does this line mark?

The answer is near the Quest Box at the end of your journey!

It wasn't too hard to get to high ground. And while on this Quest, other fun stuff you've found!



Photo credit: Clatsop County Historical Society, Astoria, OR

Did You Know?

Tsunami waves can continue to come ashore for several hours after the initial earthquake. In an actual event, you should plan to **STAY** on high ground at least overnight. Where could you go to find shelter without going back down into the inundation zone?

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| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| 5 | 3 | 4 | 2 | 6 | 9 | 5 |

Stamp page 244 of this book to record your find!

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