Clallam Bay Tsunami Evacuation Walk Times

Washington Military Department
Emergency Management Division

WASHINGTON STATE DEPT OF NATURAL RESOURCES
WASHINGTON GEOLOGICAL SURVEY

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This map is a planning and preparation tool. Learn the evacuation routes for you and your family where you live, work, and play—evacuation maps may not be on hand during an actual emergency.

This evacuation walk time map for the Clallam Bay area provides an estimate of the amount of time it would take to evacuate from within the modeled inundation zone of a Cascadia-sourced subduction zone earthquake. This map provides the inundation extent for a magnitude 9 earthquake, the L1 event. Time estimates on this map are modeled assuming a slow walking pace of 2.46 mph (~24 minute/mile), equivalent to the pace used for the timing of cross walks. Estimated wave arrival times shown on the map indicate the time between the beginning of the earthquake and modeled wave arrival at that location.

WHAT TO DO

- Begin evacuation as soon as earthquake shaking stops and it is safe to move from your drop, cover, and hold position or as directed by a tsunami warning siren, NOAA weather radio, or other official announcements. Do not delay in evacuating - every minute counts!
- Make your way uphill to high ground and follow the designated evacuation routes shown on this map. These routes were selected for pedestrian evacuation, but may be affected by post-earthquake hazards, such as collapsed bridges, landslides, and downed power lines. Use situational awareness when evacuating and be prepared to take alternate paths if necessary.
- Head to post-tsunami assembly areas such as the Sekiu Airport. These are places of high ground for displaced people, typically in open outdoor spaces or in large structures just beyond the tsunami inundation zone. They may not have immediate services or shelter.
- Do not re-enter or cross back into the inundation zone until instructed to do so by local officials. Tsunamis are multi-wave events. The first wave may not be the highest, and danger of tsunami inundation may persist for many hours after the initial wave has subsided.

In some places a slow walk may not be fast enough to evacuate before waves arrive. In these cases a faster evacuation pace will be necessary. Some areas may require vertical evacuation structures for successful evacuation.

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Tsunami inundation data from:
Dolcimascolo, Alexander; Eungard, D. W.; Allen, Corina; LeVeque, R. J.; Adams, L. M.; Arcas, Diego; Titov, V. V.; Gonzalez, F. I.; Moore, Christopher; Garrison-Laney, C. E.; Walsh, T. J., 2022, Tsunami hazard maps of the Olympic Peninsula—Model results from an extended L1 Mw 9.0 Cascadia subduction zone megathrust earthquake scenario: Washington Geological Survey Map Series 2022-01, 14 sheets, scale 1:48,000, 21 p. text.
[https://fortress.wa.gov/dnr/geologydata/tsunami_hazard_maps/ger_ms2022-01_tsunami_hazard_olympic_peninsula.zip]

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124°18'W

124°16'W

48°16'N

N

0 0.25 0.5

SCALE 1:14,000 miles

Use the QR code to open this map on your phone

Clallam Bay

Sekiu Airport

A

Washington St

Front St

Sekiu Airport Rd

SR112

Sekiu

high ground

ESTIMATED WAVE ARRIVAL TIME: 25 MIN

15

Falls Creek

15

30

high ground

Clallam River

75

60

ESTIMATED WAVE ARRIVAL TIME: 25 MIN

45

30

high ground

Salt Air St

Salmon St

Cell Tower access road

15

wetland

Frontier St

Frontier St

Clallam Bay High School

Clallam River

30

15

5th St

6th St

high ground

ESTIMATED WAVE ARRIVAL TIME: 50 MIN

15

high ground

Murphy Rd

Bogachiel St

high ground

A

Clallam Bay

Weel Rd

15

SR112

Pearson Creek

30

30

wetland

high ground

15

Clallam River

Lost Creek

Approximate tsunami evacuation slow-walk times (~24 minute/mile)

OUTSIDE OF MODELED TSUNAMI INUNDATION ZONE

TSUNAMI INUNDATION ZONE

15	0–15 minutes	
30	16–30 minutes	
45	31–45 minutes	
60	46–60 minutes	
75	61–75 minutes	
	pedestrian evacuation not possible in model	

ocean

trail, staircase, or bike path

road

tsunami evacuation route

edge of inundation zone

- tsunami siren
- A post-tsunami assembly area
- bridge inaccessible in model
- stream, lake, or pond
- impassable wetland
- impassable slope

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