Chinook Tsunami Evacuation Walk Times

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 Chinook 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.
- 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.

The Indian Creek Dam may fail in strong earthquake shaking. The purple line indicates the likely flow path from floodwaters. These waters are hazardous and should not be entered or crossed.

ESTIMATED WAVE ARRIVAL TIME: 45 MIN

ESTIMATED WAVE ARRIVAL TIME: 35 MIN

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Map Symbols

SLOW-WALK TIMES

OUTSIDE OF MODELED TSUNAMI INUNDATION ZONE

TSUNAMI INUNDATION ZONE

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

15	0–15 minutes
30	16–30 minutes
45	31–45 minutes
60	46–60 min.
75	61–75 min.
90	76–90 min.

trail, staircase, or bike path · road · tsunami evacuation route · edge of inundation zone

ocean or tidal area

pedestrian evacuation not possible in model

stream, lake, or pond

impassable wetland

impassable slope

bridge inaccessible in model

tsunami siren

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This does not constitute an endorsement by NOAA.

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.

FAST WALK · RUN · VERTICAL EVACUATION

WASHINGTON

Map Location

WASHINGTON STATE DEPT OF NATURAL RESOURCES
WASHINGTON GEOLOGICAL SURVEY

Washington Military Department
Emergency Management Division

WASHINGTON GEOLOGICAL SURVEY
OCTOBER 2026

IN CASE OF EARTHQUAKE, GO TO HIGH GROUND OR INLAND

East Sand Island

Use the QR code below to open this map on your phone

Tsunami inundation data from:
Eungard, D. W.; Forson, Corina; Walsh, T. J.; Gica, Edison; Arcas, Diego, 2018, Tsunami hazard maps of southwest Washington-Model results from a ~2,500-year Cascadia subduction zone earthquake scenario: Washington Geological Survey Map Series 2018-01, 4 sheets, scale 1:48,000, 11 p. text.

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0 0.5 1
SCALE 1:11,000
miles

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