

# Dungeness Tsunami Evacuation Walk Times

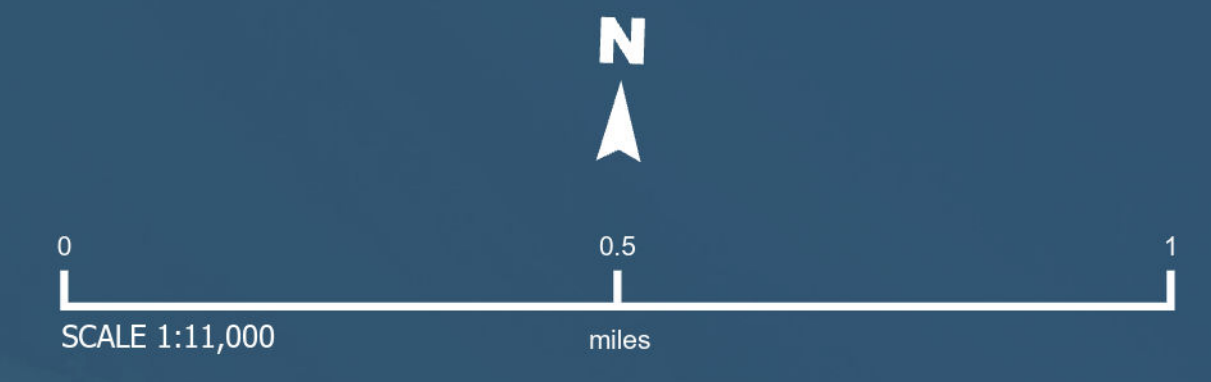
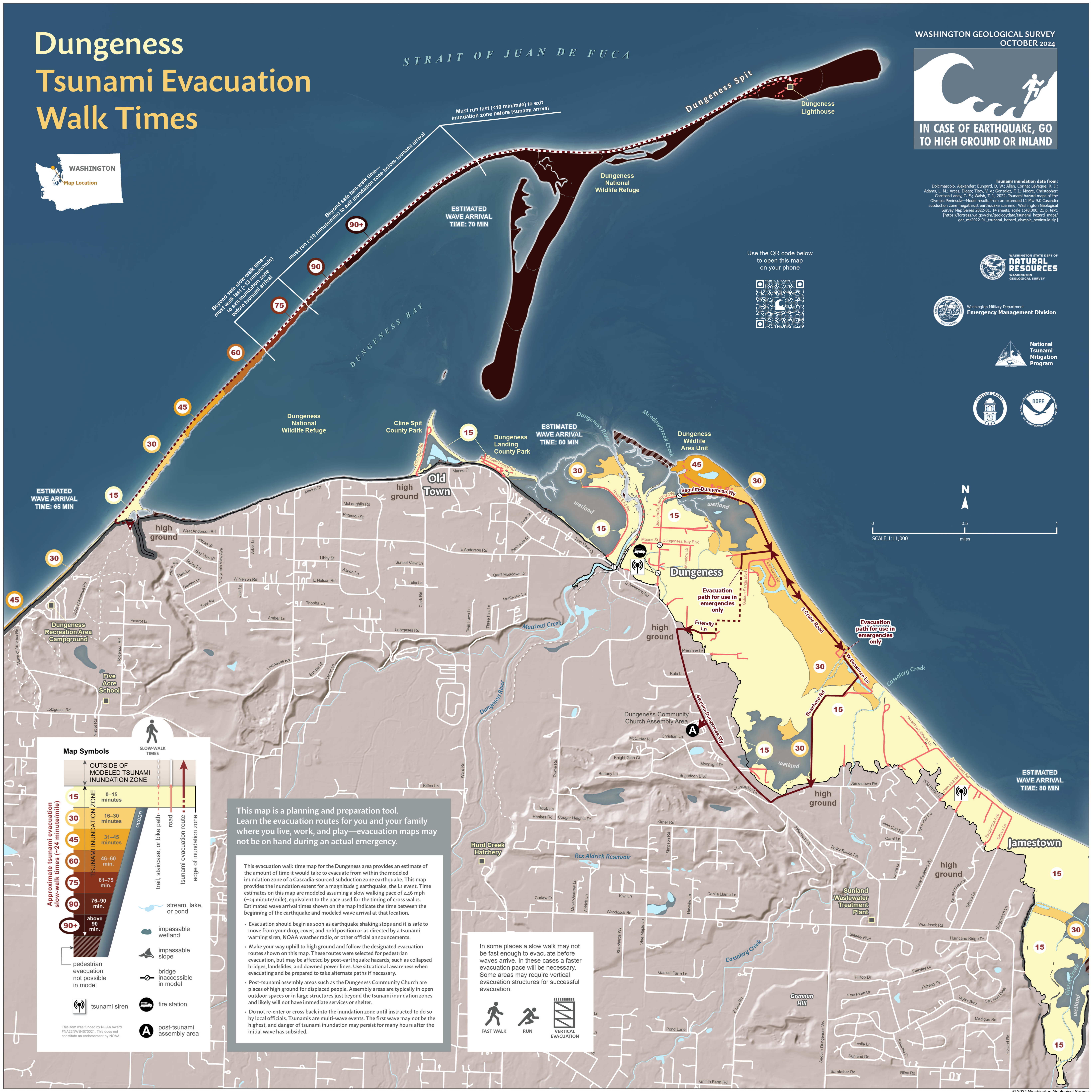
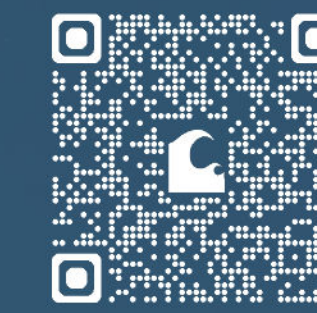
WASHINGTON GEOLOGICAL SURVEY  
OCTOBER 2024



Tsunami inundation data from:  
Dolincascolo, Alexander; Eungard, D. W.; Allen, Corina; LeVeque, R. J.; Adams, L. M.; Arcas, Diego; Titov, V. V.; Gonzalez, F. J.; Moore, Christopher; Garrison-Laney, G. 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 1:63,000, 21 p. text. [https://kortress.wa.gov/dw/geologydata/tsunami\_hazard\_maps/ger\_ms2022-01\_tsunami\_hazard\_olympic\_peninsula.zip]



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



**Map Symbols**

Approximate tsunami evacuation slow-walk times (~24 minute/mile)	Minutes	Symbol
15	0-15 minutes	Lightest yellow
30	16-30 minutes	Light yellow
45	31-45 minutes	Yellow
60	46-60 min.	Orange
75	61-75 min.	Dark orange
90	76-90 min.	Red-orange
90+	above 90 min.	Dark red

**Map Symbols**

- pedestrian evacuation not possible in model
- tsunami siren
- fire station
- post-tsunami assembly area
- trail, staircase, or bike path
- road
- tsunami evacuation route
- edge of inundation zone
- stream, lake, or pond
- impassable wetland
- impassable slope
- bridge
- inaccessible in model

**SLOW-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 Dungeness 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.
- Evacuation should begin 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.
  - 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.
  - Post-tsunami assembly areas such as the Dungeness Community Church are places of high ground for displaced people. Assembly areas are typically in open outdoor spaces or in large structures just beyond the tsunami inundation zones and likely will 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.

**FAST WALK** **RUN** **VERTICAL EVACUATION**