Tsunami Hazard Map of the Anacortes–Whidbey Island Area, Washington: Modeled Tsunami Inundation from a Cascadia Subduction Zone Earthquake

by

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Uplift or subsidence of the land after a subduction zone earthquake can substantially change the local topography and bathymetry. This change in topography and bathymetry can affect the degree of tsunami inundation. The map shown here is the current speed at which it would be difficult to stand; 1.5–5 m/s, and greater than 5 m/s. The highest speeds are in the Swinomish Channel. Though not part of the modeling study, inundation also occurs within the Swinomish Channel. The model run is referenced to mean high water and does not include the influences of dike overtopping.

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This map is one of a series of tsunami inundation maps produced by the Washington Division of Geology and Earth Resources and the National Tsunami Hazard Mitigation Program. The map is designed to reduce the impact of tsunamis through warning guidance, hazard assessment, and communication with the public.

REFERENCES

For a complete list of references, please see the TsuInfo Alert, v. 4, no. 2, p. 6-10.