



Draft Tsunami Hazard Map of the Cannon Beach Area, Clatsop County, Oregon by George Priest and Rob Witter, Oregon Department of Geology and Mineral Industries

This map is a draft because it has not yet been completed. It is based on methods and data that are still being finalized and have not been through technical review.

The tsunami inundation boundary depicting the maximum potential distant tsunami inundation (maximum teletsunami worst-case Alaska event) is in active revision and will be different in the final map to be released later in 2008. The map therefore does not meet the Agency standard for publication and the Agency does not recommend use of this map for emergency planning or other purposes.

The tsunami inundation lines on the map represent the extent of flooding expected for a variety of potential tsunamis generated by earthquakes on the Cascadia subduction zone and in Alaska.

The distant tsunami inundation line is shown in blue on the map and represents the expected extent of flooding caused by one of the largest possible subduction zone earthquakes in Alaska, based in part on modeling by the NOAA Pacific Marine Environmental Laboratory.

Other inundation lines (shown by the spectrum of colors from red to green) represent the expected possible extent of flooding caused by potential tsunamis generated by Cascadia subduction zone earthquakes. The various lines show the level of confidence that a tsunami will reach no further inland than the line. The confidence level values represent the percentage of possible tsunamis encompassed by the line.

The “most likely” inundation line (80% confidence level) corresponds to a tsunami scenario that is most consistent with the best available geologic evidence and consensus of the scientific team.

The 99% confidence inundation line corresponds to the worst-case Cascadia tsunami and encompasses all other tsunami inundation scenarios. The worst-case Cascadia tsunami is judged to be a rare but possible event based on geologic records of Cascadia subduction zone earthquakes over the last 10,000 years.

Learn more about tsunamis in Oregon by going online at: <http://www.OregonGeology.org>

This draft map developed by the Oregon Department of Geology and Mineral Industries includes preliminary data that have not been technically reviewed for final publication. The Agency does not recommend the use of this draft map for emergency planning or other purposes. April 18, 2008