Improved Road

Because the two plates are stuck in place at a rate of about 1.5 inches per year, but the movement is not smooth in coastal areas reduce the potential for disastrous tsunami-related inundation. The National Oceanic and Atmospheric Administration (NOAA) since 1999 has been identifying and mapping the tsunami inundation hazard along the Oregon coast. Several maps have been published, and new maps are being developed. The most recent approach tested at Cannon Beach, Clatsop County, Oregon, utilizes tsunami wave propagation modeling in order to prohibit the construction of new essential facilities within the tsunami inundation map polygons. The tsunami scenarios presented on this map can be found in Witter and others, 2011. The maps are produced through the approach tested at Cannon Beach, Clatsop County, OR.

The tsunami inundation hazard is determined using the following steps:

1. The tsunami wave propagation model is run for each scenario.
2. The time series data for each scenario is post-processed to determine the tsunami wave height and inundation extent.
3. The cumulative number of buildings inundated within the map area is calculated for each scenario.
4. The results are displayed on the map as color-coded areas.

The tsunami inundation hazard is determined for each scenario, and the results are displayed on the map as color-coded areas. The map also shows the regulatory tsunami inundation line (Oregon Senate Bill 379). This map is intended to provide a high-level view of the tsunami inundation hazard along the Oregon coast. It is important to note that the tsunami inundation hazard is dynamic and can change over time due to various factors, including changes in the earthquake source, the local geology, and the local topography.

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