Introduction

Historically, about 28 distant tsunamis have been documented by tide gauges since 1854. The most severe was generated by the 1957 earthquake in the Kurile Islands. Oregon tide gauges have recorded 17 tsunamis since 1945, of which four were generated by distant earthquakes. The 1964 M9.2 Prince William Sound earthquake in Alaska was the greatest tsunami to hit Oregon, which killed four people and caused property damage. Oregon tide gauges have recorded 17 tsunamis since 1945, of which four were generated by distant earthquakes. The 1964 M9.2 Prince William Sound earthquake in Alaska was the greatest tsunami to hit Oregon, which killed four people and caused property damage.

Earthquake rupture. This rupture causes a vertical displacement of the Pacific Plate and other major tectonic plates. The Pacific Ocean subduction can trigger tsunamis.

Data Sources

The data sources for this map include the National Geophysical Data Center / World Data Center, the National Oceanic and Atmospheric Administration, and the U.S. Geological Survey. The map was funded under award number 1318380019-00-011-11-01.

Map Notes

This map was funded under award number 1318380019-00-011-11-01. It was created using DataSources, ESRI ArcGIS® 10.0, Microsoft® Excel®, and Esri World Imagery. The data layers include a digital elevation model, a road network, a coastline, a building footprint, and a tsunami inundation map. The map was created using the ESRI ArcGIS software and the data was provided by NOAA, DOGAMI, and the National Geophysical Data Center.