profiles show that there may be a steep splay fault running nearly displacement and increase tsunami inundation. Seismic geophysical
States Geological Survey (USGS) released the results of a study the range in time between these 19 events varies from 110 to 1,150
also been discovered in estuaries 6 miles inland. As shown in Figure 3, 26, 1700. Sand deposits carried onshore and left by the 1700 event
of tsunami inundation maps to help residents and visitors along the
entire Oregon coast prepare for the next Cascadia Subduction Zone
unincorporated portions of the map. How Tsunamis Occur

The Garibaldi tide gauge. To make it easier to understand this
mitigation and response, the five scenarios are labeled as "T-shirt
period at the Garibaldi tide gauge. Therefore scenarios, the computer model produces time series data for

The data used to create this chart came
Cascadia Subduction Zone events over the
magnitude for these five scenarios. Figure 4 shows the cumulative

Of tsunami inundation, do not be alarmed. An all-clear signal is generally
the first tsunami wave to arrive onshore. Therefore
and the wave height observed. It is especially noteworthy that the

Ground deformation is a powerful indicator of the effects of
subsidence. Detailed information
suggests that portions of the coast may drop 4 to 10 feet during the

This block diagram depicts the tectonic setting of the region. See Figure 2 for the sequence of

Recent studies, it is clear that the Cascadia Subduction Zone is capable of

Local Source (Cascadia Subduction Zone) Tsunami Inundation Map
Rockaway Beach, Oregon