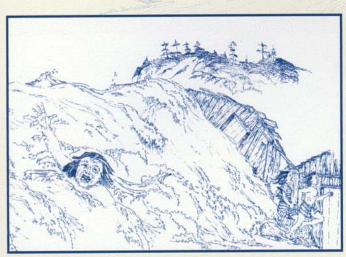


The Great Earthquake and Tsunami of 1700 A.D.



During the 18th century, Native
American villages occupied the
mouths of nearly every stream along this
coastline—including here at Siletz Bay.
Since native peoples probably had little
idea about the relationship between
earthquakes and tsunamis, they were
taken by surprise in January 1700, when
this beach was hit by a devastating
tsunami. References to great flooding
and ground shaking events in the oral
traditions of many Pacific Northwest
coastal tribes are probably the records of
this event.

On January 26, 1700, the earth shook violently in the throes of a magnitude 9+ earthquake that occurred along the great offshore fault system called the Cascadia Subduction Zone. From northern California to British Columbia, the ocean floor heaved upward approximately 20 feet, and within 10-30 minutes a giant wave up to 50 feet high reached the shore. The wave probably struck this beach only 20 minutes after the earthquake. Devastating waves from this event continued to strike the entire coastline for several hours, flooding beaches, bays, tidal channels, and marshes.



It is easy to imagine the terror, tremendous loss of life, and destruction that occurred here at Siletz Bay and along this entire coastline in the wake of the great tsunami of 1700.

Today, we know that major earthquakes and tsunamis occur along this segment of the Pacific coast approximately every 200-1,000 years—we also know what to do when the earth shakes:

- Protect yourself during the earthquake. After the earthquake, travel immediately inland and uphill along designated Tsunami Evacuation Routes.
- Do not return to the beach or low-lying areas after the first tsunami wave. Dangerous waves may strike for several hours.
- Wait for official notice from local authorities that the danger has passed before returning.

For more information about earthquakes and tsunamis contact your local emergency planning office, Oregon Emergency Management, or the Oregon Department of Geology and Mineral Industries.

