

Earthquake and Liquefaction

Hazard Description

Earthquakes are the shaking of the earth's surface. They are caused by the movement of tectonic plates. The Cascadia Subduction Zone is a major source of earthquakes in the Pacific Northwest. The Cascadia Subduction Zone is a tectonic plate boundary where the Juan de Fuca Plate is being subducted under the North American Plate. This zone is responsible for the 1700 earthquake and tsunami.

Cascadia Subduction Zone Earthquake

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How often do Earthquakes occur in our area?

Earthquakes occur frequently in the Pacific Northwest. The Cascadia Subduction Zone is a major source of earthquakes in the Pacific Northwest. The Cascadia Subduction Zone is a tectonic plate boundary where the Juan de Fuca Plate is being subducted under the North American Plate. This zone is responsible for the 1700 earthquake and tsunami.

What causes Earthquake Damage?

Earthquake damage is caused by the shaking of the earth's surface. The shaking can cause buildings to collapse, roads to crack, and bridges to fall. Earthquake damage is caused by the shaking of the earth's surface. The shaking can cause buildings to collapse, roads to crack, and bridges to fall.



Landslides

Hazard Description

Landslides are the movement of earth material down a slope. They can be caused by a variety of factors, including heavy rain, earthquakes, and human activities. Landslides can cause significant damage to property and infrastructure.

Factors Contributing to Landslides

- 1. Heavy rain
- 2. Earthquakes
- 3. Human activities
- 4. Steep slopes
- 5. Loose soil
- 6. Deforestation
- 7. Road construction
- 8. Mining
- 9. Dams
- 10. Urban development

Delineation of a Landslide

A landslide is a mass movement of earth material down a slope. It can be caused by a variety of factors, including heavy rain, earthquakes, and human activities. Landslides can cause significant damage to property and infrastructure.

Tsunami Hazard

Physical Characteristics of a Tsunami

Tsunamis are large ocean waves caused by the displacement of water. They can be caused by earthquakes, volcanic eruptions, and landslides. Tsunamis can travel across the ocean at high speeds and cause significant damage to coastal areas.

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Deep Ocean Assessment and Reporting of Tsunamis (DART)

The Deep Ocean Assessment and Reporting of Tsunamis (DART) system is used to detect and report tsunamis. It consists of a network of sensors in the deep ocean that can detect changes in water pressure caused by a tsunami. The DART system is used to provide early warning of tsunamis to coastal areas.

Severe Weather

Hazard Description

Severe weather includes hurricanes, tornadoes, and heavy rain. These types of weather can cause significant damage to property and infrastructure. It is important to be prepared for severe weather by having a plan in place.

Types of Severe Weather in Grays Harbor

Grays Harbor is a coastal area that is vulnerable to severe weather. The most common types of severe weather in Grays Harbor are hurricanes, tornadoes, and heavy rain. It is important to be prepared for these types of weather by having a plan in place.

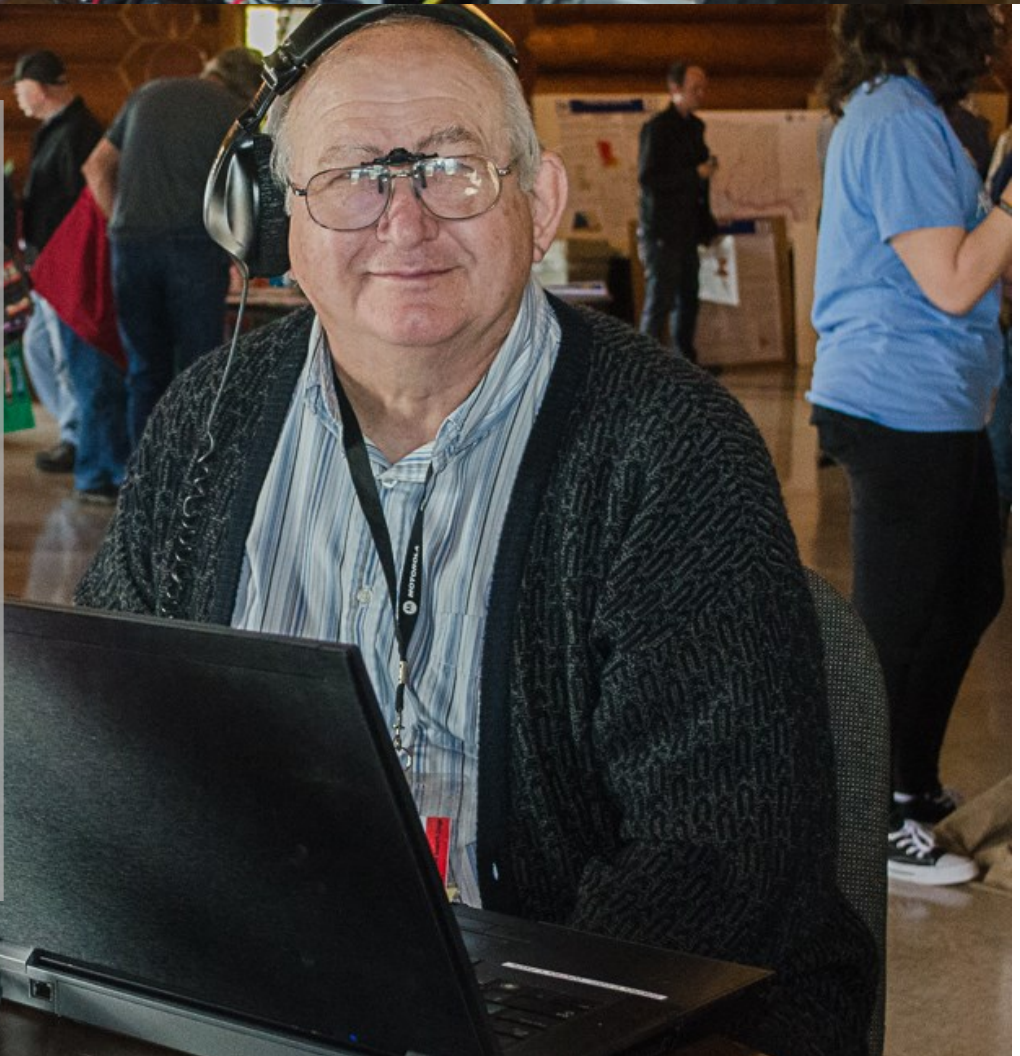


















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