Local Source (Cascadia Subduction Zone) Tsunami Inundation Map
Clatsop Spit, Oregon

Introduction
The Cascadia Subduction Zone (CSZ) is a slab of the Pacific Ocean, known for its large earthquakes and tsunamis. The Cascadia tsunami hazard is a result of the slip on the subduction zone, which is a type of plate movement. The DOGAMI has developed a new tsunami inundation map for the Clatsop Spit, Oregon region. This map provides a tool to assess the potential tsunami hazard in the area.

Map Exploration
This map visualizes the inundation extent and height for each tsunami scenario. The inundation map is based on a computer model that simulates tsunami propagation and inundation. The map includes a legend that explains the color coding and the inundation extent for each scenario.

Source Data
The source data for this map includes ground-based, aerial, and satellite data. The map is based on the CSZ earthquake and tsunami hazard assessments performed by the California Geological Survey (CGS) and the Oregon Department of Geology and Mineral Industries (DOGAMI).

Tsunami Inundation Scenarios
The tsunami inundation scenarios are based on the last 19 great earthquakes in the region. Each scenario assumes that a tsunami occurs at Mean Lower Low Water (MLLW) and Mean Higher High Water (MHHW) levels. The map shows the inundation extent for each scenario and provides a tool to assess the potential tsunami hazard in the area.

Map Explanation
The map includes a legend that explains the color coding and the inundation extent for each scenario. The map is based on the CSZ earthquake and tsunami hazard assessments performed by the California Geological Survey (CGS) and the Oregon Department of Geology and Mineral Industries (DOGAMI).

Tsunami Inundation Maps for Clatsop Spit, Oregon
The tsunami inundation maps for Clatsop Spit, Oregon are provided for the cities and towns along the coast. The maps show the inundation extent and height for each tsunami scenario. The maps are based on the CSZ earthquake and tsunami hazard assessments performed by the California Geological Survey (CGS) and the Oregon Department of Geology and Mineral Industries (DOGAMI).

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Cartography
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Publication
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Software
ArcGIS

Tsunami Inundation Map Release
This tsunami inundation map is provided for information purposes only and should not be used for navigation or legal purposes.

Tsunami Hazard Assessment
This tsunami hazard assessment was performed by the California Geological Survey (CGS) and the Oregon Department of Geology and Mineral Industries (DOGAMI). The assessment was based on the last 19 great earthquakes in the region. Each scenario assumes that a tsunami occurs at Mean Lower Low Water (MLLW) and Mean Higher High Water (MHHW) levels. The map shows the inundation extent for each scenario and provides a tool to assess the potential tsunami hazard in the area.