Introduction

The Cascadia Subduction Zone (CSZ) is a subduction zone where the North America plate is being subducted beneath the Pacific plate. The CSZ is a tectonic plate boundary between the North American plate and the Pacific plate (Figure 1). This subduction zone has been identified as a region where a magnitude 9 earthquake could occur, resulting in a large tsunami that could impact the Oregon and Washington coasts.

Map Explanation

This map is a Local Source (Cascadia Subduction Zone) Tsunami Inundation Map of Cape Lookout, Oregon. The map shows the tsunami inundation zones, buildings in the tsunami inundation zones, and maximum water elevation time for simulated gauge stations. The map is based on the U.S. Geological Survey (USGS) Digital Elevation Model (DEM) and Lidar data. The map was created by the Oregon Department of Geology and Mineral Industries (DOGAMI) and has been revised by the Oregon Department of Transportation (ODOT). The map includes a tsunami hazard zone map and a tsunami inundation map for Cape Lookout, Oregon.

The map uses various colors to indicate the tsunami inundation zones, with darker colors indicating higher inundation levels. The map also includes a legend that explains the colors used to represent different inundation levels.

The map is intended to help residents and emergency managers understand the potential impact of a tsunami in Cape Lookout, Oregon. The map was created in cooperation with the National Oceanic and Atmospheric Administration (NOAA) and the U.S. Geological Survey (USGS).