This tsunami inundation map displays the output of computer models that simulate the effects of a tsunami event on the Del Rey Beach, Oregon area. The map shows various inundation scenarios, each representing different possible outcomes based on the modeled slip scenarios of the Cascadia Subduction Zone (CSZ).

**Introduction**

The Cascadia Subduction Zone is a region where the Pacific Plate subducts beneath the North American Plate. Historically, the region has experienced significant earthquakes and tsunamis, with the most recent major event occurring in 1700. The map is intended to inform the public and policymakers about the potential consequences of such events.

**Map Explanation**

- **Legend**: The map includes a legend that explains the symbols and colors used to represent different inundation scenarios. Each scenario corresponds to a specific amount of slip on the subduction zone, indicating different levels of earthquake and tsunami intensity.

- **Profile Location**: The map includes a profile line with simulated gauge stations and police stations, along with an example of the tsunami wave elevation for the five tsunami scenarios.

- **Inundation Scenarios**: The scenarios are color-coded to represent varying levels of inundation, with darker colors indicating higher levels of water elevation.

**Conclusion**

Understanding and mitigating the geologic hazards posed by the Cascadia Subduction Zone is crucial for the safety and preparedness of coastal communities. The map serves as a tool for visualizing potential tsunami impacts, aiding in disaster preparedness planning and public education.

**References**

- Witter and others, 2011. Earthquakes (Witter and others, 2011). The event is considered to be a "medium sized" earthquake.
- Andree V. Pollock, Assistant Director, Geologic Survey and Services.