The maximum tsunami scenario is selected as the worst case distant tsunami scenario. This represents a hypothetical maximum event originating near the Gulf of Alaska. The first scenario attempts to model two distant tsunami events for example, offshore Alaska in 1964 and offshore Japan in March 2011.

Alaska-Aleutian Model Specifications

The cumulative number of tsunami inundation events for these two scenarios is shown in Figure 3. The tsunami inundation map displays the output of computer models that simulate the effects of tsunamis on the Oregon coast. Each point is wet or dry. These points are converted to wet and dry tsunami probability zones.

Tsunami Inundation Scenarios

The tsunami hazard maps of the Oregon coast were created by DOGAMI. Senate Bill 379 line data were redigitized and updated. Binary lithology data were created by DOGAMI. Senate Bill 379 line data were redigitized and updated. Hydrology data, contours, critical facilities, and building footprints were added.

Map Explanation

The map shows the tsunami inundation lines and the cumulative number of inundation events for each point. The map also shows the regulatory tsunami inundation line (Oregon Senate Bill 379 line). This line is used to determine the potential for hazardous tsunami-related consequences in different areas of Oregon.

Introduction

Tsunami Inundation Map Till-01

Data References

References

Don W.T. Lewis, Rachel L. Smith, Vicki S. McConnell, Director and State Geologist, Rachel L. Smith, Project Operations Manager

Daniel E. Coe, Paul A. Ferro, Sean G. Pickner, Rachel L. Smith

George R. Priest, Laura L. Stimely, Don W.T. Lewis, Rachel L. Smith

Tsunami Inundation Map Till-05

Legend

Tsunami Inundation Map Till-04

Data References

The tsunami inundation map data were created by DOGAMI. The Senate Bill 379 line data were redigitized by DOGAMI. Hydrology data, contours, critical facilities, and building footprints were added to the map by DOGAMI.

Appendix

The tsunami hazard maps of the Oregon coast were created by DOGAMI. Senate Bill 379 line data were redigitized and updated. Binary lithology data were created by DOGAMI. Senate Bill 379 line data were redigitized and updated. Hydrology data, contours, critical facilities, and building footprints were added.

Acknowledgments

The authors would like to thank the Oregon Department of Geology and Geotechnical Information (DOGAMI) for providing the tsunami inundation map data.

Appendix

The tsunami hazard maps of the Oregon coast were created by DOGAMI. Senate Bill 379 line data were redigitized and updated. Binary lithology data were created by DOGAMI. Senate Bill 379 line data were redigitized and updated. Hydrology data, contours, critical facilities, and building footprints were added.

Appendix

The tsunami hazard maps of the Oregon coast were created by DOGAMI. Senate Bill 379 line data were redigitized and updated. Binary lithology data were created by DOGAMI. Senate Bill 379 line data were redigitized and updated. Hydrology data, contours, critical facilities, and building footprints were added.

Appendix

The tsunami hazard maps of the Oregon coast were created by DOGAMI. Senate Bill 379 line data were redigitized and updated. Binary lithology data were created by DOGAMI. Senate Bill 379 line data were redigitized and updated. Hydrology data, contours, critical facilities, and building footprints were added.

Appendix

The tsunami hazard maps of the Oregon coast were created by DOGAMI. Senate Bill 379 line data were redigitized and updated. Binary lithology data were created by DOGAMI. Senate Bill 379 line data were redigitized and updated. Hydrology data, contours, critical facilities, and building footprints were added.

Appendix

The tsunami hazard maps of the Oregon coast were created by DOGAMI. Senate Bill 379 line data were redigitized and updated. Binary lithology data were created by DOGAMI. Senate Bill 379 line data were redigitized and updated. Hydrology data, contours, critical facilities, and building footprints were added.

Appendix

The tsunami hazard maps of the Oregon coast were created by DOGAMI. Senate Bill 379 line data were redigitized and updated. Binary lithology data were created by DOGAMI. Senate Bill 379 line data were redigitized and updated. Hydrology data, contours, critical facilities, and building footprints were added.

Appendix

The tsunami hazard maps of the Oregon coast were created by DOGAMI. Senate Bill 379 line data were redigitized and updated. Binary lithology data were created by DOGAMI. Senate Bill 379 line data were redigitized and updated. Hydrology data, contours, critical facilities, and building footprints were added.

Appendix

The tsunami hazard maps of the Oregon coast were created by DOGAMI. Senate Bill 379 line data were redigitized and updated. Binary lithology data were created by DOGAMI. Senate Bill 379 line data were redigitized and updated. Hydrology data, contours, critical facilities, and building footprints were added.

Appendix

The tsunami hazard maps of the Oregon coast were created by DOGAMI. Senate Bill 379 line data were redigitized and updated. Binary lithology data were created by DOGAMI. Senate Bill 379 line data were redigitized and updated. Hydrology data, contours, critical facilities, and building footprints were added.